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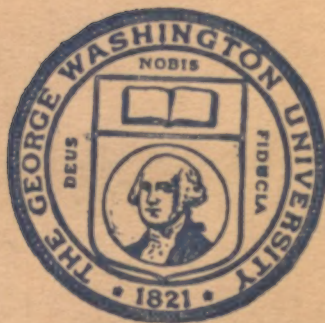
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# George Washington University Bulletin

John Adams and American Constitutions

BY

CHARLES WARREN



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## JOHN ADAMS AND AMERICAN CONSTITUTIONS

An Address delivered at the Midwinter Convocation of George Washington University, at Memorial Continental Hall, in Washington, D. C., February 22, 1927

by

CHARLES WARREN,

(Assistant Attorney General of the United States, 1914-1918; author of "The Supreme Court in United States History", "Congress, the Constitution, and the Supreme Court", etc.)

Three hundred years ago, William Penn wrote: "Our great men were designed by the wise Framer of the universe \* \* \* for lights and directions to the lower ranks of the numerous company of their own kind, in precepts and examples." It is the distinction of great leaders that they are the first to feel the movement of an age, recognize its significance, and give it direction. Hence it is that he who wishes to understand the fundamentals of his government must keep himself familiar with the lives of its founders. It was with this purpose, that the wise old author of the *Book of Ecclesiasticus* exclaimed in glowing words: "Let us now praise famous men \* \* \* such as have brought tidings in prophecies, leaders of the people by their counsels and by their understandings; men of learning for the people; wise were their words in their instruction. All these were honored in their generations and were a glory in their days."

At the present time, the tendency among writers seems to be, not so much to praise famous men as to minimize their greatness and to emphasize their commonness. The modern biographer not only paints a Cromwell with his wart, but also a Cromwell consisting chiefly of warts. Oliver Goldsmith said of Dr. Johnson that he would make all his little fishes talk like whales. The modern biographer seems to try to make his whales talk like little fishes. Formerly, the life of a great man was held up as a model and an incentive. Now, under the plea of "humanizing" his subject, the biographer aims, apparently, not so much to bring *us* up to *his* level, as to bring *him* down to *ours*.

Yet, as Robert Louis Stevenson has said in his essay on the "English Admirals": "It is, at best, but a pettifoggery, pickthank business to decompose actions into little personal motives and explain heroism away." And he who tarnishes the glory of high public service and who beclouds the light of patriotic ideals, by harping on the minor traits and defects of great Americans, does a sad disservice to his country; for the glory of a country's past should be an illuminating inspiration to the citizens of the future.

In reaction against this style of treatment, it is good for us to turn our attention away from the small things which a great man shares in common with little men, and to consider some of the things which made him great.



"Tho I am truly sensible of the high honor done me in this appointment, yet I feel great distress from a consciousness that my abilities and military experience may not be equal to the extensive and important trust. However, as the Congress desire it, I will enter upon the momentous duty and exert every power I possess in their service and for support of the glorious cause. I beg they will accept my most cordial thanks for this distinguished testimony of their approbation.

"But lest some unlucky event should happen unfavorable to my reputation, I beg it may be remembered by every gentleman in the room that I, this day, declare with the utmost sincerity, I do not think myself equal to the command, I am honored with."

The contemporary view of Washington's appointment may be gathered from a rarely quoted letter by a Connecticut delegate in Congress, who wrote, the next day, that it "removes all jealousies, more firmly cements the Southern to the Northern," and was "absolutely necessary in point of prudence. But he is clever, and if anything too modest. He seems discreet and virtuous, no harum-scarum, ranting, swearing, fellow, but sober, steady and calm. His modesty will induce him, I dare say, to take and order every step with the best advice possible to be obtained in the army."<sup>(3)</sup>

It was the choice of Washington as Commander-in-Chief which ensured a national conduct of the War and an union of interest between the Colonies. Not only, however, was it John Adams who thus started this country on the road to becoming a nation; but it was also John Adams who made certain that this country should continue to be a nation instead of a collection of States. For, twenty-six years later, it was he who, as President, had the foresight to appoint John Marshall as Chief Justice of the United States. "My gift of John Marshall to the people \* \* \* was the proudest act of my life," he said, later. Nothing in our history is more remarkable than the fact that it should have been one man (and he a Northern man from Massachusetts) who gave to our country the two great Virginians—Washington and Marshall, the two great builders of American nationality. If Adams had accomplished nothing more in his long life, his name would deserve to be indelibly stamped on the hearts of all Americans.

But his great service did not stop here. Not only was he the first Nationalist, but he was also the first Constitutionalist; and it should never be forgotten that to him this country owes the form of its State Constitutions and of its Federal Constitution.

So familiar are we today with the framework of our State governments, with their Governors, their two-branch Legislatures and their independent Judiciary, that we unconsciously assume that it was inevitable and necessary that the American Colonies should adopt that form, when they revolted from Great Britain. The fact is quite the contrary. For, in 1775 and 1776, when the royal charters ceased to operate, the antagonism of the colonists to the broad powers exercised by the Royal Governors and the Royal Judges, and to the restrictions on the action of their Colonial Legislative bodies, was so great that most of them



adopted, as their temporary form of government, a single-branch House of Representatives (or Congress), which not only made the laws but executed them (either through a Council or Committees or officers chosen by itself).

When the question arose as to what permanent form of government the States should adopt, there was presented a problem new in history. It has been well said that: "To disrupt an empire was not new. It was not new to overthrow government. But to overturn thirteen royal provinces, and, without intervening anarchy, to set up in their stead thirteen independent governments; to loose the bonds of an empire and reform the contiguous parts into an united whole, with such coherence as enabled it to maintain itself against formidable odds—this was something new in history, and to many seemed impossible."<sup>(4)</sup>

Fortunately, there was in Congress one man, and one alone, who, all his life, had made a profound study of the theory of government. At the age of twenty-three, John Adams had written in his diary as a goal for his future: "Aim at an exact knowledge of the nature and means of government. Compare the different forms of it with each other and each of them with their effects on public and private life." The principles of government, he wrote, later, were to be learned, not so much from the conclusions of philosophers and political scientists as from the observation and study of "human nature, society and universal history." Now after twenty years of such study, he was in a position to advise and secure its fruition. Most of the Colonies, in 1775, sought the opinion of Congress as to the form of Government they should adopt. That cautious body declined to give any definite view. Accordingly, the delegates turned to Adams; and from the summer of 1775, through the spring of 1776, he was consulted by South Carolina, Virginia, North Carolina, Pennsylvania, New Jersey, New York and New Hampshire.

It was a novel and unknown thing, at that time—this business of Constitution-making, as may be gathered from what Adams wrote in his *Autobiography*:

"Although the opposition was still inveterate, many members of Congress began to hear me with more patience, and some began to ask me civil questions. 'How can the people institute governments?' My answer was 'By conventions of representatives, freely, fairly and proportionably chosen.' 'When the Convention has fabricated a government, or a Constitution rather, how do you know the people will submit to it?' 'If there is any doubt of that, the Convention may send out their project of a Constitution to the people in their several towns, counties or districts, and the people may make the acceptance of it their own act.' 'But the people know nothing about Constitutions.' \* \* \* 'I believe that in every considerable portion of the people, there will be found some men who will understand the subject as well as their representatives, and these will assist in enlightening the rest. 'But what plan of a government would you advise?' \* \* \* 'A legislature in three branches, ought to be preserved, and independent judges.' 'Where and how will you get your governors and councils?' 'By elections.'"

In this manner, Adams outlined, for the first time in history, the



precise course which American States later followed in the formation of their Constitutions. To leading men in each Colony, Adams wrote long letters, setting forth his views as to the proper form of government for the new States. These letters, which were printed and widely distributed, outlined certain fundamental principles which today seem axiomatic and trite, but which were not so then.

John Adams was the first statesman to explain clearly to the people why, if they were to institute a republican form of government, they must keep the three branches of government, the Executive, the Legislative and the Judiciary, separate and independent. To have a republic, you must eliminate arbitrary power and unchecked authority. But, as Adams pointed out, any government in which one body (whether a King or a Legislature) both makes the laws and executes them, is essentially an arbitrary government. It is the essence of a free republic, on the other hand, that no man or set of men shall ever have the power both "to make the law, to decide whether it has been violated and to execute judgment on the violator." To preserve liberty to the people, there must be restraints and balances and separations of power. Accordingly the frame of government which Adams submitted to those who consulted him provided for a Governor, with power to veto and to appoint officials; a Legislature, consisting of two branches (one as a check upon the other), each eventually to be elected by the people; and a Judiciary, independent and chosen during good behaviour.<sup>(5)</sup> Such a Constitution differed widely from anything which the Colonies had theretofore considered. Yet, between May, 1776, and December, 1777, practically all the Colonies, save Pennsylvania and Georgia, adopted Adams' plan, in general, in drafting their State Constitutions. New York conformed to it very closely; and Massachusetts, in 1780, adopted as its Constitution, the very draft which Adams wrote for it. Moreover, when in 1787, the Federal Convention met at Philadelphia to frame the Constitution of the United States, it was the Massachusetts and New York State Constitutions to which the delegates resorted for the form and for much of the wording of the immortal document which they signed.

And today the framework of the Constitutions of almost all our States follows that drafted by John Adams in 1780. Rightly may he be termed "The Architect of American Constitutions."

And now, in connection with present day problems, I wish to call your attention briefly to two principles which John Adams embodied in his Massachusetts Constitution. At its very outset, he set forth that principle of separation of powers which he had preached, day in and day out, to the delegates of the Congresses of 1775 and 1776:

"In the government of this Commonwealth, the legislative department shall never exercise the executive and judicial powers or either of them; the executive shall never exercise the legislative and judicial powers, or either of them; the judicial shall never exercise the legislative and executive powers or either of them; to the end it may be a government of laws and not of men."



"To the end it may be a government of laws and not of men." Those are great words. Adams was the first and only man to place them in a Constitution. They are the essential definition of the American system of government. They have been often quoted; yet they cannot be too often impressed on our minds. For they mean that, in this country, there is no right to the exercise of arbitrary power. They mean that no Legislature shall have power to act contrary to the prohibitions of the Constitution, that it shall have no power to execute its laws after it has made them, that it shall have no power to act as a Court and interpret the meaning of its own laws as it chooses. They mean that no Governor or President shall have power to make laws or to interpret them or to do any act unless authorized by the Constitution or by the Legislature. They mean that every official of the Government shall be bound by the Constitution and the laws, and shall be held responsible in court for every act performed without sanction of law.

These words embody the principle which the Supreme Court of the United States, headed by the great Chief Justice, John Marshall, applied in a famous case, in 1803, when it held that not even a member of the Cabinet was exempt from legal process, and that he must obey the law even if instructed by the President to the contrary. It was this principle that led the Court, in 1866, to hold an act of President Lincoln's invalid as unauthorized by law, and by its decision, it saved a man from execution. It was on this principle that the Court held, in 1882, that instructions given by President Arthur to an army officer could not protect the latter from suit if he trespassed on the rights of a private citizen; by this decision the heirs of Robert E. Lee recovered their rights to Arlington; and in this decision, Judge Miller uttered the immortal words that: "No man in this country is so high that he is above the law. No officer of the law may set that law at defiance with impunity."

But to constitute a "government of laws and not of men," not only must the Executive and Executive officers be prevented from usurping powers, but the Legislative must be careful not to transfer its powers to the Executive so as to enable the latter to be in the position of making his own laws and then enforcing them. Of late years, there has been a decided tendency in Congress to bring about this latter condition: and this increasing tendency deserves more careful consideration than has hitherto been given to it. Let me mention briefly, for example, a few instances in which Congress has practically (even if not in a Constitutional sense) transferred to the Executive the power of making laws. (I omit entirely the striking instances of transfer of power to the President during the late war.)

In 1912, Congress gave the President power to reorganize the whole customs service and abolish needless ports and offices, at his discretion. In 1912 and 1916, Congress gave the President power to prescribe the Panama Canal Tolls, to promulgate laws and regulations for asserting the police power in the Zone and for levying excise, license and franchise taxes. Congress, in 1914, gave the President power to suspend



provisions of the Seamen's Act, "whenever in his discretion, the needs of foreign commerce may require." Congress, in 1919, gave the President power to exclude any alien he "shall find that the public safety requires." In 1922, Congress by statute granted to the President the power to raise or lower tariff duties within a range of fifty per cent. Only last year, Congress gave to the President power, by the Federal Aviation Act, to set apart and regulate air-space reservations for governmental purposes and for public safety, with penalties for violations of the President's regulations. In various other years, the President has been authorized to execute and enforce interstate quarantine regulations of the Secretary of the Treasury and "adopt such measures as in his judgment shall be necessary," in case State or municipal authorities shall fail to enforce the said regulations. He has been authorized to suspend immigration in case of danger of disease; to suspend importation of any food or drink "adulterated to an extent dangerous to the health or welfare of the people of the United States;" to prevent export of helium gas; to allow foreign yachts to enter without duties or tonnage taxes; to waive provisions as to eight hour day on public contracts; to prevent the landing of submarine cables on our shores.<sup>(6)</sup>

Much of this Congressional legislation places in the hands of the President arbitrary power to be exercised at his absolute will and discretion and on his uncontrollable determination of facts. It displays a decided trend away from the republican principle of a "government of laws and not of men."

We are here confronted not so much with executive usurpation as with legislative abdication.

The trend is even more pronounced when one stops to realize the extent to which Congress has authorized Executive officials other than the President to control the conduct of the citizen by mere Executive or Administrative regulations.

Such statutory authority to make regulations, which shall have the force of positive Federal law, binding as such upon individuals, has been granted by Congress to Executive Departments and Commissions over a wide and constantly increasing field of subjects. Should all these regulations, which are binding as law, be brought together in one book, it would constitute a volume of over one thousand pages. Every citizen is subject today to this vast bulk of law made by Federal Executive Departments or Commissions (and frequently, in practice, by minor officials); and yet tomorrow every one of these regulations may be changed by the sole whim or judgment of a Department or Bureau head. Moreover, violations of a large part of these regulations have been made criminal offenses by Congress, so that, every day of the year, these Department or Bureau heads may, by their sole act, manufacture new Federal crimes and offenses. Furthermore, last year, in the Federal Aviation Act, Congress took a new step towards increasing the powers of Executive officials; it granted, for the first time in legislative history so far as I can ascertain, the power to a single individual, the Secretary



of Commerce, (as well as to "any officer or employee of the Department of Commerce designated by him in writing for the purpose") "to hold hearings, examine witnesses and issue subpoenas for the attendance and testimony of witnesses and the production of books, papers, documents and other evidence" before him. This was an unprecedented extension of power, as to which we may gravely ponder—especially since similar power is granted to the Secretary of Commerce in the Federal Radio Act which has just been enacted, this year.

As an illustration of the variety of subjects which the Federal Executive and Administrative officials control simply by regulations, and largely by regulations the violations of which constitute criminal offenses, let me call to your attention the following partial list of subjects. Cutting timber on mineral lands; fire protection for national forests; protection of fur seal animals; game and bird preserves; wild life and fish refuges, national parks; reclamation projects; national forests; water holes; cotton futures; cotton standards; grain standards; naval stores; adulterated seeds; insecticides; nursery stock; honey bees; mailing of plants; standard barrels; packers' stockyards; United States warehouses; contagious animal diseases; virus and toxins; adulterated and renovated butter; white phosphorus matches; neat cattle and horses; animal meats; reservation and protection of air-spaces; cattle transportation; railroad car safety devices; explosives; and narcotics. Two subjects which were formerly regulated by elaborate and detailed provisions of State statutes are now controlled entirely by regulations of Federal officials, practically unrestrained by Congressional legislation. I refer to the subjects of pure foods and drugs, and migratory bird and game.<sup>(7)</sup> And in addition, there are the Federal rules and regulations as to matters formerly within State control—but now Federalized by the Federal Aid Acts—matters like giving birth to children, road-building, etc.

All this imposition of law and creation of criminal offenses by Executive or Administrative regulation is a far cry from the type of "government by laws" intended by the original framers of our Constitutions. It is small wonder that thoughtful statesmen are now apprehensive at the rapid growth of bureaucratic government, and are looking about for a remedy. One remedy at least is possible and at hand—namely that Congress should do its duty; that it should re-assume its function of legislation, itself; that it should pay more attention to the details of the subjects on which it legislates; and that, it should, as far as practicable, desist from shifting its responsibility and from availing itself of the easy expedient of authorizing bureaucratic officials to regulate the conduct and to prescribe the criminal offenses of citizens of the United States.

One other section drafted by Adams in the Massachusetts Constitution, I wish to call to your attention. It is unique in American Constitutions, and reads (in part) as follows:

"Wisdom and knowledge, as well as virtue, diffused generally among the body of the people, being necessary for the preservation



of their rights and liberties; and as these depend on spreading the opportunities and advantages of education in the various parts of the country, and among the different orders of the people, it shall be the duty of legislatures and magistrates, in all future periods of this commonwealth, to cherish the interests of literature and the sciences and all seminaries of them \* \* \* to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and frugality, honesty and punctuality in their dealings; sincerity, good humor, and all social affections, and generous sentiments, among the people."

In the first place, note the words: "Wisdom and knowledge, as well as virtue, diffused generally among the body of the people, being necessary for the preservation of their rights and liberties." These words supplemented the sentiment which Adams copied from George Mason's Bill of Rights in Virginia that:

"No free government or the blessings of liberty can be preserved to any people but by \* \* \* frequent recurrence to fundamental principles."

"Liberty," wrote Adams, "cannot be preserved without a general knowledge among the people. \* \* \* Let all become attentive to the grounds and principles of government. \* \* \* Let the public disputations become researches into the grounds and nature and ends of government, and the means of preserving the good and demolishing the evil." To foster education, he said in his Inaugural Address as President, was a governmental duty, not only for "its benign influence on the happiness of life in all its stages and classes, and of society in all its forms, but as the only means of preserving our Constitution from its natural enemies \* \* \*."

It was this same sentiment which inspired Jefferson, in his own first Inaugural, to term, as one of the fundamental necessities of a republican government, "the diffusion of information and arraignment of all abuses at the bar of the public reason." And as he wrote in 1820: "I know of no safe depository of the ultimate powers of the society but the people themselves; and if we think them not enlightened enough to exercise their control with a wholesome discretion, the remedy is, *not* to take it from them, *but* to inform their discretion by education. This is the true corrective of abuses of constitutional power."<sup>(8)</sup> "No experiment," he wrote to Judge Tyler, in 1802, "can be more interesting than that we are now trying, and which, we trust, will end in establishing the fact that man may be governed by reason and truth. \* \* \* Our first object should therefore be to leave open to him all the avenues to truth."

In this section of his Massachusetts Constitution, moreover, combined with the section declaring for freedom of religion, Adams embodied the spirit of toleration, which both he and Jefferson held to be fundamental in a republican government—the spirit which surely this country stands in need of cultivating at the present day.

To John Jay, Adams wrote, in 1786, in favor of "a liberal and generous toleration \* \* \* the first right of mankind to worship God



according to their consciences." Again he wrote: "I think that when we can enlarge our minds to allow each other an entire liberty in religious matters, the human race will be more happy and respectable." And again, that the three grand objects in view in all our political transactions should be: "Political and civil liberty; liberty of conscience; liberty of commerce."

This was the spirit which Jefferson advocated in his first Inaugural, when he said: "Having banished from our land that religious intolerance under which mankind so long bled and suffered, we have yet gained little if we countenance a political intolerance as despotic, as wicked" \* \* \* "If there be any among us who wish to dissolve this union, or to change its republican form, let them stand undisturbed, as the monuments of the safety with which errors of opinion may be tolerated, where reason is left free to combat it." "I tolerate with the utmost latitude the right of others to differ with me in opinion, without imputing to them criminality," wrote Jefferson to Mrs. John Adams, in 1804. "I know too well the weakness and uncertainty of human reason to wonder at its different results." And again he wrote: "Difference of opinion leads to enquiry and enquiry to truth. \* \* \* We both value too much the freedom of opinion sanctioned by our Constitution not to cherish its exercise, even when in opposition to ourselves." And in his famous statute of Religious Freedom, he had stated: "The opinions of men are not the object of civil government nor under its jurisdiction. To suffer the civil magistrate to intrude his powers into the field of opinion and to restrain the profession or propagation of principles on supposition of their ill tendency is a dangerous fallacy."

Freedom of conscience and freedom of opinion—those were principles which Jefferson and Adams insisted lay at the foundations of our Government. They realized that the right of the majority to rule must be accompanied by the minority's right to be heard and to have all avenues to truth open to it.

Last Fourth of July, throughout the States of this country, meetings were held, speeches were delivered, and articles were written, to commemorate the hundredth anniversary of the death of these two great American patriots, and to hold forth their ideals as an inspiration to our people.

In view of many conditions now prevalent in this country, it affords an interesting theme for conjecture; how far the members of the communities in which those commemorative meetings were held really believe and act upon the principles laid down by the founders of our Government. Freedom of conscience and freedom of opinion—how far are those principles anything more than mere words at the present day? How far are they acted upon in practice? How far do we give them more than lip-service? How often do they mean anything more than freedom to agree in thought or speech with what the majority in power thinks right or safe? We like to believe that this country has carried forward, further than any other, the vital principles of a republican



form of government. But when we see the lack of spirit of toleration in so many of the measures of our Legislatures, in so many of the organized societies, and in so many of the speeches and editorials of today, we may well put to ourselves the question: "Have we, in this Twentieth Century, advanced so far beyond the past generations, as we sometimes boast?"

In the Seventeenth Century, it was a great Englishman, John Milton, who wrote: "Give me liberty to know, to utter, and to argue freely, according to conscience, above all liberties." In the Eighteenth Century, it was a great Frenchman, Voltaire, who stated to an opponent: "I hate and detest what you say, but I will defend with my life, if need be, your right to say it." In the Nineteenth Century, it was a great American, Thomas Jefferson, who wrote: "I have sworn upon the altar of God, eternal hostility against every form of tyranny over the mind of man."

Those are inspiring words. Do they represent the belief or the basis of action of the average American legislator and of the average American official and of the average American citizen, at the present day? That is a question which we may, very searchingly, put to ourselves.

Above all liberties, "the liberty to know, to utter and to argue freely according to conscience"—"eternal hostility against every form of tyranny over the mind of man." Certainly, that is the spirit which must inspire the education which Adams and Jefferson said the Government must foster. Does American education mean that, in all the States of this country today? And if not, how shall it be made to mean that? Those are problems which you graduates of this University must do your part to work out, if you would be worthy of the great Americans who founded your country.



# NOTES.

- (1) *Works of John Adams* X, 10-12, Adams to Dr. Benjamin Rush, Dec. 25, 1811: "As if I had ever considered Jefferson as my enemy. This is not so. I have always loved him as a friend. If I ever received or suspected any injury from him, I have forgiven it long and long ago. . . . I know no difference between him and myself relative to the Constitution or to forms of government in general. In measures of administration we have differed in opinion." *Correspondence of John Adams and Thomas Jefferson* (1925) by Paul Wiltach. Jefferson to Adams March 25, 1826; Adams to Jefferson, April 17, 1826.
- (2) *Writings of Thomas Jefferson* (Washington Ed.) II, 607, to Madison, 1787; *Writings of Thomas Jefferson* (Ford's Ed.) XI, 280; XII, 306, 119; to W. P. Gardner, Feb. 13, 1813; to Madison, Aug. 30, 1823; to Samuel A. Wells, May 12, 1819, *Mass. Hist. Soc. Proc.* XLVI, 405 et seq, memoranda of an interview with Jefferson, by Selma Hale (1818): "No history has done him justice. . . . In his zeal for independence, he was ardent; in contriving expedients and originating measures he was always busy; in disastrous times when gloom sat on the countenances of most of us, his courage and fortitude continued unabated and his animated exhortation restored confidence to those who wavered. He seemed to forget everything but his country and the cause which he espoused. . . . It was at these times when the rest of us were dispirited and silent that the loud voice of John Adams, the Ajax of the body, resounded through the hall, revived our spirits and restored our confidence. To him more than to any other man is the country indebted for our independence."
- (3) *Letters of Members of the Continental Congress*, I, 127-218. Eliphalet Dyer, to Joseph Trumbull, June 17. 1775.
- (4) *John Adams, the Statesman of the American Revolution* (1898) by Mellen Chamberlain, p. 73; *The Politics of John Adams*, by Anson D. Morse, *Amer. Hist. Rev.* (1899) V.
- (5) *Works of John Adams* IV, 194, 203. "Thoughts on Government applicable to the present state of America" (Jan. 1776); Adams to John Penn (Jan. 1776). Adams to Richard Henry Lee, Nov. 15, 1775: "A legislative executive and a judicial power comprehend the whole of what is meant and understood by government. It is by balancing each of these powers against the other two that the efforts in human nature towards tyranny can alone be checked and restrained, and any degree of freedom preserved in the Constitution." Adams to H. Niles, Feb. 13, 1818: "The Colonies had grown up under Constitutions of government so different, there was so great a variety of religions, they were composed of so many different nations, their customs, manners, and habits had so little resemblance, and their intercourse had been so rare, and their knowledge of each other so imperfect, that to unite them on the same principles in theory and the same system of action, was certainly a very difficult enterprise. The complete accomplishment of it, in so short a time and by such simple means, was perhaps a singular example in the history of mankind."
- (6) For transfer of legislative powers to the President, see the following Acts: Aug. 24, 1912, c. 355 (37 Stat. 417); Aug. 24, 1912, c. 390 (37 Stat. 560); Aug. 21, 1916, c. 371 (39 Stat. 527); Aug. 18, 1914, c. 256 (38 Stat. 698); Nov. 10, 1919, c. 104 (41 Stat. 353); Sept. 21, 1922, c. 356, sec. 315 (42 Stat. 941); May 20, 1926, c. 344 (44 Stat. 568); Feb. 15, 1893, c. 114 (27 Stat. 452); March 3, 1887, c. 339 (24







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C. The Fairchild Aerial Surveys, Inc., N. Y. C.

*Air View of the Immediate Surroundings of George Washington University*

George Washington University. 2. Interior Department. 3. State Department. 4. White House. 5. Treasury Department. 6. Washington



George Washington University

WASHINGTON, D. C.

SUMMER SCHOOL  
ARTS AND SCIENCES

1927

JUNE 13 . . . AUGUST 13

JULY 5 . . . AUGUST 13



### SUMMER SCHOOL CALENDAR

1927

June	9, Tuesday.	Registration period begins.
June	13, Monday.	Instruction begins in the nine-weeks' classes and all others not starred.
July	4, Monday.	Holiday.
July	5, Tuesday.	Instruction begins in the six-weeks' classes marked by a star (*).
July	9, Saturday.	Classes held at the usual hours.
August	13, Saturday.	Summer Session ends.



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 HOWARD LINCOLN HODGKINS, Ph.D., Sc.D. .... *Dean of the University*  
 ELMER LOUIS KAYSER, A.M. .... *Director of the Summer School*

WILLIAM ALLEN WILBUR, A.M., Litt.D.,  
*Dean of Columbian College and Professor of English*  
 PAUL BARTSCH, Ph.D. .... *Professor of Zoology*  
 GEORGE NEELY HENNING, A.M., Litt.D.,  
*Dean of the School of Graduate Studies and Professor of*  
*Romance Languages*

ALFRED FRANCIS WILLIAM SCHMIDT, A.M.,  
*Librarian and Professor of Library Science*

EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.,  
*Elton Professor of Mental and Moral Philosophy*

RAY SMITH BASSLER, Ph.D. .... *Professor of Geology*

ROBERT RUSS KERN, A.B. .... *Professor of Economics and Sociology*

CHARLES EDWARD HILL, Ph.D. .... *Professor of Political Science*

HIRAM COLVER MCNEIL, Ph.D. .... *Professor of Chemistry*

THOMAS BENJAMIN BROWN, Ph.D. .... *Professor of Physics*

HENRY GRATTAN DOYLE, A.M. .... *Professor of Romance Languages*

ROBERT FISKE GRIGGS, Ph.D. .... *Professor of Botany*

L. RUSSELL ALDEN, A.M., LL.B. .... *Professor of Commercial Law*

COLIN MACKENZIE MACKALL, Ph.D. .... *Professor of Chemistry*

EDWARD HENRY SEHRT, Ph.D. .... *Professor of German*

HARRY GRANT HODGKINS, A.B. .... *Associate Professor of Mathematics*

ROBERT WHITNEY BOLWELL, Ph.D. .... *Associate Professor of English*

WALTER LYNNE CHENEY, Ph.D. .... *Associate Professor of Physics*

FRED AUGUST MOSS, Ph.D. .... *Associate Professor of Psychology*

HAROLD GRIFFITH SUTTON, A.B., M.S. .... *Associate Professor of Economics*

CHARLES ELMER RESSER, Ph.D. .... *Assistant Professor of Geology*

MERLE IRVING PROTZMAN, A.M.,  
*Assistant Professor of Romance Languages*

RALPH BAXTER FOSTER, A.M.,  
*Assistant Professor of Romance Languages*

WARREN REED WEST, Ph.D. .... *Assistant Professor of Political Science*

ALAN THOMAS DEIBERT, A.M.,  
*Assistant Professor of Romance Languages*

ANDRÉ MARIE-GEORGES BENÉTEAU, B.L. .... *Instructor in French*

AUDLEY LAWRENCE SMITH, A.M. .... *Instructor in English*

PAUL EUGENE GROPP, A.M. .... *Instructor in German*



GEORGE KUMLER ANDERSON, Ph.D.....	<i>Instructor in English</i>
LOWELL JOSEPH RAGATZ, Ph.D.....	<i>Instructor in History</i>
COURTLAND DARKE BAKER, A.M.....	<i>Instructor in English</i>
CARL LEROY FREDERICK, A.B.....	<i>Instructor in Physics</i>
BENJAMIN DOUGLAS VAN EVERA, M.S.....	<i>Instructor in Chemistry</i>
JOHN RUSSELL MASON, A.M.....	<i>Assistant Librarian</i>
RAYMOND McGEARY HANN, B.S. in Chem.....	<i>Instructor in Chemistry</i>
FORREST ALBERT YOUNG, A.M.....	<i>Instructor in Economics and Commerce</i>
EDWARD P. HENDERSON, A.B.....	<i>Instructor in Geology</i>
M. A. MARTINEZ.....	<i>Instructor in Spanish</i>

## VISITING PROFESSORS

WILLIAM MOSELEY BROWN, Ph.D.,	<i>Professor of Education and Psychology, Washington and Lee University.</i>
JOHN DONALD HICKS, Ph.D.,	<i>Professor of American History, University of Nebraska.</i>
ARTHUR D. WRIGHT, M.A.,	<i>Professor of Education, Dartmouth College.</i>
JOHN P. WYNNE, Ph.D.,	<i>Professor of Education, State Teachers College, Farmville, Virginia.</i>
ALVA CURTIS WILGUS, Ph.D.,	<i>Associate Professor of History, University of South Carolina.</i>
WILLIAM MCKINLEY ROBINSON, M.A.,	<i>Specialist, United States Bureau of Education.</i>

## ASSISTANTS

*Botany:* JUNE COOPER, A.B.; *Chemistry:* DEE HURST, A.B., ARTHUR EVARTS KIMBERLY, B.S. in Chem., RUSSELL WILSON, B.S. in Chem. E., FRED C. FARRELL, CORINNE DE BARYSHE; *Zoology:* HARRIET BUNDICK, WILLIAM T. MCCLOSKEY, A.B., ELIZABETH PARKER, A.B.

## SUMMER SCHOOL

### ARTS AND SCIENCES

1927

The 1927 session will be the twelfth in the present series of summer sessions in George Washington University. The summer school is an integral part of the University, and all of the courses given are similar to the corresponding courses given during the regular session. The teaching staff is for the greater part composed of members of the faculty of the University.

The Summer School offers to students an opportunity to continue work toward their degrees during the vacation period. For teachers and librarians a wide range of professional courses is available.

In addition, the educational value of a visit to the nation's capital is of inestimable importance. The knowledge gained forms a background for both intelligent and appreciative citizenship. History, geography, literature, civics and current events are all vivified by a first hand knowledge of Washington and its environment.

#### ADMISSION

All the work offered is of college grade and rests upon a minimum preparation of high school graduation or the equivalent. Unless a student wishes to matriculate in the University, the formal presentation of entrance credentials is not required.

#### REGISTRATION

Registration for courses, changes in registration, and the dropping of courses are effected in the Registrar's Office, 2033 G Street N.W. This office will be open to receive registrations from 9 a. m. to 6 p. m. after June 9, although students may register at any earlier date in person, or by mail. Registration for credit in any class closes three days after the class has started, unless written permission to the contrary is granted by the Director.

#### CREDIT

The units of credit in semester hours carried by the several courses are indicated both in the schedule of classes on pages 9-11 and in the descriptive outlines of the course on pages 12-24. A semester hour of work covers a minimum of fifteen class or laboratory periods.

Work satisfactorily completed in the Summer School will be accredited toward a degree at George Washington University on the same basis as work completed during the regular session. No student is permitted to take more than three courses without the special permission of the Director who may for reasons of weight permit a student to register for a fourth course. Students regularly employed



will not be allowed to register for more than two courses without the special permission of the Director.

A division of courses into three sections is recognized. First section courses, numbered from 1 to 19, inclusive, are planned primarily for lower classmen; second section courses, numbered from 20 to 49, inclusive, for upper classmen; and third section courses, numbered 50 and above, for graduate students. First section courses may not be credited toward the higher degrees, and second section courses, unless otherwise noted, may be so credited only after additional work in them has been satisfactorily completed. Third section courses may not be entered by students without a bachelor's degree except with the approval of the instructors concerned. Candidates for the master's degree at George Washington University must complete at least six semester hours of work in the third section.

### GRADUATE STUDY

The requirements for the degree of Master of Arts may be satisfied by Summer School attendance exclusively. These requirements involve, in addition to the thesis, the satisfactory completion of twenty-four semester hours of work, forming a consistent plan of study, and a minimum attendance of twenty-seven weeks. The candidate's choice of subjects must be approved by his major department and by the Dean. Wherever possible it is advisable for students to consult members of the major department before registering. For a detailed statement of the requirements for the Master's and Doctor's degrees, the student is referred to the regular catalogue of the University.

### LIBRARY

The University Library is located on the first floor of Lisner Hall (Building 4). The Library will be open during the summer session from 8.30 a. m. to 12.30 p. m. and 3 to 9 p. m.

### DIRECTOR

The office of the Director of the Summer School is located on the first floor of the Administration Building (A 11), 2100 G Street.

### HOUSING FACILITIES

A register of approved rooms is kept in the office of the Dean of Women (Building 8), where inquiries in respect to housing facilities should be addressed. Living accommodations in private houses, dining rooms, restaurants and cafeterias may be found in abundance near the University.

## PAYMENT OF FEES

The Cashier's office, where all fees are paid, is located at 2033 G Street, across the hall from the Registrar's office. Fees are due upon registration, but the nine-weeks' students may pay their fees in three equal installments, at the time of registration, July 1 and July 15, and the six-weeks' students in two equal installments, at the time of registration and July 15. Students whose fees are not paid in full three days after the final dates mentioned and who have not made arrangements for later payment with the Treasurer will be dropped.

Students who are compelled to withdraw before the end of the session should promptly notify the Registrar, who will make a fair adjustment of the fees. No separate registration fee is charged, but two dollars of the tuition fee may be canceled. As the fiscal year of the University ends August 31, no requests for refunds can receive consideration after that date.

## FEES

Tuition is charged at the rate of \$7.00 for each semester hour of work taken, except in the case of students who were in attendance during 1924-5, who will be charged in accordance with statements in the catalogue of 1924-5.

Laboratory fees are additional as follows:

Chemistry 2, Geology 1, Physics 4a and 4b, each.....	\$5.00
Chemistry 15 and Zoology 3, each.....	7.50
Chemistry 3, 4 and 20, each.....	10.00
Chemistry 16, 41, 46 and 93, each.....	15.00

Breakage deposits, the amount paid in excess of breakage to be returned:

Chemistry 2, 3 and 4, each.....	10.00
Chemistry 10, 15, 16, 41, 46 and 93, each.....	15.00

Microscope rental:

Zoology 4 .....	2.00
Zoology 3 and Botany 1, each.....	5.00



## SCHEDULE OF CLASSES

In this statement courses which are starred begin July 5. All other courses begin June 13. Classes meet five times a week, or the equivalent. Credits are stated in semester-hours.

Course.	Credits.	Instructor.	Room.
7:45—8:40 A. M.			
Commerce 26, Marketing	3	Young	C.H. 24
Economics 33, Investments	3	Sutton	C.H. 21
*Education 21 B, Principles of Teaching	2	Wynne	C.H. 22
*Education 22 B, History of Education	2	Brown	C.H. 15
*Education 26 B, Elementary Education	2	Robinson	C.H. 32
*English 2 A, Rhetoric	3	Wilbur	C.H. 23
Geology 1, Mineralogy	4	Henderson	C.H. 31
German 6, Scientific German	3	Gropp	C.H. 25
History 27, Hispanic-American History	3	Wilgus	C.H. 35
History 45, Modern Imperialism	3	Ragatz	C.H. 29
Political Science 1, U. S. Government	3	West	C.H. 33
8—10			
*Zoology 4, Nature Study	3	Bartsch	3-11
9:05—10			
*Commerce 1, History of Commerce	2	Young	C.H. 24
*Education 21 A, Educational Psychology	2	Brown	C.H. 15
*Education 24, History of Education	2	Wright	C.H. 21
*Education 26 A, Elementary Education	2	Robinson	C.H. 32
*English 32, Shakespeare	2	Wilbur	C.H. 23
*History XLVII, Recent American History	3	Hicks	C.H. 35
*Philosophy 21, Principles of Philosophy	2	Richardson	C.H. 25
10:05—11			
*Botany 2, Plant Kingdom	3	Griggs	C.H. 24
*Education 11, Educational Psychology	2	Brown	C.H. 15
*Education 25 A, Secondary Education	2	Wynne	C.H. 22
*Education 33, Teaching of History	2	Wilgus	C.H. 35
*Education 54, Administration and Supervision	3	Wright	C.H. 21
*English XXIX, Romances and Balladry	2	Anderson	C.H. 25
*English XLI, Pilgrims Progress	2	Wilbur	C.H. 23
*Political Science 24, Constitutional Law	2	West	C.H. 33
*Psychology 11, Educational Psychology	2	Brown	C.H. 15
11:05—12			
*Education 25 B, Junior High School	2	Wynne	C.H. 22
*Education 31 B, Tests and Measurements	2	Wright	C.H. 21

Course.	Credits.	Instructor.	Room.
*English XXVIII, Early English Literature	2	Anderson	C.H. 25
*History 38, French Revolution	2	Ragatz	C.H. 29
*Political Science 25, Political Theory	2	West	C.H. 33
1:30—4:30 P. M.			
*Botany 5, Plant Study	4	Griggs	2-21
4:10—5			
English XLII, Modern Poetry	3	Baker	6-22
French 12, Third Year French	3	Henning	5-21
Political Science 3, State Governments	3	Hill	C.H. 17
5:10—6			
Chemistry 2, General Chemistry (to 6:20)	6	McNeil	C.H. 39
Chemistry 3, General Chemistry (to 6:55)	10	McNeil	C.H. 39
Chemistry 4, General Chemistry (to 6:20)	8	McNeil	C.H. 39
Chemistry 10, Physical Chemistry (to 6:55)	10	Van Evera	C.H. 37
Chemistry 15, Organic Chemistry (to 6:20)	6	Mackall	C.H. 36
Chemistry 16, Organic Chemistry (to 6:20)	8	Mackall	C.H. 36
(For other courses in Chemistry see announcement on page 12.)			
Commerce 33 A, Contracts	2	Alden	5-22
English 6 A, Survey	3	Bolwell	6-12
English 38 B, Romantic Movement	3	Smith	6-21
English XL, The Short Story	3	Baker	6-22
French 1, First Year French (2 hours daily, second hour 6:55)	6	Foster	4-32
French 4, Second Year French (2 hours daily, second hour 6:55)	6	Henning	5-21
French 7, Composition and Conversation	3	Benéteau	4-23
History 10 A, American History to 1829	3	Hicks	C.H. 27
History 11, Medieval History	3	Ragatz	C.H. 29
Library Science 1, Cataloguing	3	Schmidt	4-29
Mathematics 4 A, College Algebra	3	Cheney	4-21
Mathematics 9 B, Analytic Geometry	3	Hodgkins	5-11
Physics 3 A, General Physics	3	Brown	4-14
Political Science 31, World Politics	3	Hill	C.H. 17
Psychology 12 B, Applied Psychology	3	Moss	4-28
Spanish 1, First Year Spanish (2 hours daily, second hour 6:55)	6	Deibert	C.H. 22
Spanish 4, Second Year Spanish (2 hours daily, second hour 6:55)	6	Doyle	C.H. 35
Zoology 3, Zoology	8	Bartsch	6-11
5:10—6:55			
Chemistry 3, General Chemistry	10	McNeil	C.H. 39



## SUMMER SCHOOL

11

Course.	Credits.	Instructor.	Room.
Chemistry 10, Physical Chemistry and Qualitative Analysis	10	Van Evera	C.H. 37
Economics 2, Principles of Economics	6	Sutton	4-27
Economics 21, Experimental Sociology	6	Kern	C.H. 25
Geology 2, General Geology	4	Bassler	5-12
German 2, First Year German	6	Gropp	C.H. 24
German 4, Second Year German	6	Sehrt	4-24
5:10—7:45			
*Botany 25, Plant Adaptation	3	Griggs	2-21
6:05—6:55			
*Botany 1, Living Plant	3	Griggs	C.H. 15
Commerce 33 B, Commercial Paper	2	Alden	5-22
Commerce 43, Foreign Trade	3	Young	C.H. 33
English 6 B, Survey	3	Bolwell	6-12
English XXIV, American Literature	3	Smith	6-21
French 2 B, Second Semester French	3	Foster	4-32
History 10 B, American History from 1829	3	Hicks	C.H. 27
History 25 A, English History	3	Wilgus	C.H. 29
Library Science 20, Classification	3	Schmidt	4-29
Mathematics 4 B, Geometry and Trigonometry	3	Cheney	4-21
Mathematics 9 A, Plane and Spherical Trigonometry	3	Hodgkins	5-11
Philosophy 26, Logic	3	Richardson	C.H. 15
Physics 3 B, General Physics	3	Brown	4-14
Political Science 29, International Law	3	Hill	C.H. 17
Psychology 12 A, General Psychology	3	Moss	4-28
Spanish 2 B, Second Semester Course	3	Protzman	6-22
Spanish 7, Conversation and Composition	3	Martinez	4-23
Spanish 12, Modern Spanish Drama	3	Doyle	C.H. 35
6—8			
Zoology 27, Physiology	6	Bartsch	3-11
6:55—7:50			
English 23 B, Modern Novel	3	Bolwell	6-12
French 1, First Year Course (see 5:10)			4-32
French 4, Second Year Course (see 5:10)			5-21
Geology 3, Geography	2	Bassler	5-12
Library Science 31, Bibliography	3	Schmidt	4-29
Philosophy 28, Ethics	3	Richardson	C.H. 15
Spanish 1, First Year Course (see 5:10)			C.H. 22
Spanish 4, Second Year Course (see 5:10)			C.H. 35
7:50—8:40			
Psychology 50, Seminar	3	Moss	4-28

NOTE.—For laboratory hours, see announcements under "Courses of Instruction."

## COURSES OF INSTRUCTION

Courses preceded by a star (\*) begin on July 5, all other courses begin on June 13. Courses corresponding approximately to those offered during the regular session are given corresponding numbers. Courses not so corresponding are assigned Roman numerals. The letters a and b following some of the numbers signify correspondence respectively to first and to second semester work of the regular session.

Courses called for by less than ten students may be withdrawn.

## BOTANY

Courses 1 and 2 in General Botany are equivalent to the general introduction to the science given in the regular session. To enable part time students to secure the whole course after working hours it is planned to reverse the schedule in the summer of 1928. Text: Holman and Robbins, Textbook of General Botany.

\*1. *The Living Plant*.—A study of the structure and function of the flowering plant as a working mechanism. Recitation daily, 6:05-6:55 p. m.; laboratory daily, 6:55-7:45 p. m. Three semester-hour credits. Professor GRIGGS and Miss COOPER.

\*2. *The Plant Kingdom*.—A rapid survey of the principal groups of plants followed by practice in determining the common native plants. Recitation daily, 10:05-11:00 a. m.; laboratory daily, 11:05-12:00 a. m. Three semester-hour credits. Professor GRIGGS and Miss COOPER.

\*5. *Plant Study*.—An out-of-doors course designed to familiarize the student with the plants—higher and lower—growing around Washington. Field trips daily, 1:30-4:30 p. m. Four semester-hour credits. Professor GRIGGS and Miss COOPER.

\*25. *Plant Adaptation*.—A study of the structural modifications—especially ecological histology—by which plants meet the conditions of special environments. Prerequisite: Botany 1 and 2 or equivalent. Lectures, laboratory and field trips. Daily, 5:10-7:45 p. m. Three semester-hour credits. Professor GRIGGS.

\*26. *Advanced Field Work*.—Competent students may take up some special problem. Hours and credits to be arranged. Professor GRIGGS.

## CHEMISTRY

2. *General Chemistry*.—A course for students who do not plan to continue the study of Chemistry. Prerequisite: High School Chemistry. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 3:00-5:00 p. m. or 7:00-9:00 p. m. Six semester-hour credits. Professor McNEIL and Assistants.

3. *General Chemistry*.—A course for engineering and premedical students, and for those majoring in Chemistry. Prerequisite: none. Lectures daily, 5:10-6:55 p. m. Laboratory daily, 1:00-5:00 p. m. or



7:00-11:00 p. m. Ten semester-hour credits. Professor McNEIL and Assistants.

4. *General Chemistry*.—A course for engineering and premedical students, and those majoring in Chemistry. Prerequisite: High School Chemistry. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Eight semester-hour credits. Professor McNEIL and Assistants.

10. *Elementary Physical Chemistry and Qualitative Analysis*.—The lectures consist of an elementary presentation of Physical Chemistry, and the foundations of Analytical Chemistry. The laboratory work of the first half of the course is devoted to physico-chemical measurements, and that of the second half to Qualitative Analysis. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:55 p. m. Laboratory daily, 7:00-11:00 p. m. Ten semester-hour credits. Mr. VAN EVERA.

15. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:20 p. m. Laboratory, Monday, Wednesday and Friday, 1:40-5:00 p. m. or 7:00-10:20 p. m. Six semester-hour credits. Professor MACKALL, Mr. HANN and Assistants.

16. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Eight semester-hour credits. Professor MACKALL, Mr. HANN and Assistants.

41. *Inorganic Chemistry*.—Advanced synthetic inorganic preparations. Prerequisite: Chemistry 3 or 4, and 10. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Four semester-hour credits. Professor MACKALL and Assistants.

46. *Advanced Organic Chemistry*.—Advanced synthetic organic preparations. Prerequisite: Chemistry 3 or 4, and 16. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Four semester-hour credits. Professor MACKALL and Assistants.

93. *Research in Organic Chemistry*.—Daily, 1:00-5:00 p. m. Professor MACKALL.

## COMMERCE

1. *History of Commerce*.—A study of the influence of the processes of commerce and industry upon the history of civilization, and of the development of commercial and industrial institutions from antiquity to the present time; includes consideration of World War changes and post-war problems. Prerequisite: Principles of Economics. At 9:05 a. m. Two semester-hour credits. Mr. YOUNG.

26. *Marketing*.—A fundamental course in the principles, methods, and problems of marketing. Wholesale and retail methods are fully

analyzed, and such specific problems as speculation, elimination of middlemen, and price control are examined. The position of the state in its relation to marketing is discussed; and an examination of the cooperative movement concludes the course. Prerequisite: Principles of Economics. At 7:45 a. m. Three semester-hour credits. Mr. YOUNG.

33a. *Commercial Law*.—Contracts. At 5:10 p. m. Two semester-hour credits. Professor ALDEN.

33b. *Commercial Law*.—Commercial Paper. At 6:05 p. m. Two semester-hour credits. Professor ALDEN.

43. *Foreign Trade*.—Principles and practices; underlying economic factors; market development; finance and documentation; regulation and promotion. Special attention is given to an analysis of the trade of the United States and to a survey of important markets. Prerequisite: Principles of Economics. At 6:05 p. m. Three semester-hour credits. Mr. YOUNG.

### ECONOMICS AND SOCIOLOGY

2. *Principles of Economics*.—A survey of the basic principles which underlie the production, consumption, and distribution of wealth in the economic society in which we live. Prices, business organization, finance, international trade, labor problems, relation of government to business, marketing, transportation, and taxation indicate the scope of this course. This is the prerequisite for advanced courses in economics and commerce. At 5:10 p. m. and meeting through 6:55 p. m. (two consecutive periods). Six semester-hour credits. Associate Professor SUTTON.

Note:—Students already having credit for three hours of economics should communicate with the instructor and arrange to enter for the second half of the course not later than July 18. The last half of this course is the equivalent of the second semester's work in Economics 1 and 2.

21. *Experimental Sociology*.—The course is devoted mainly to the study of social behavior, customs and social judgments upon such behavior. The student is expected to join the class in making careful observations of social conduct and in making a series of experiments adapted to the development of a better understanding and improved technics for the control of social conduct. At 5:10 p. m. and meeting through 6:55 p. m. Six semester-hour credits. Professor KERN.

33. *Investments*.—A course in the basic principles of investment. The analysis of the various factors of investment credit and their application to the different types of investments. The needs of various classes of private and institutional investors; proper selection of securities adapted to these needs. The necessary care of investments after



making them. At 7:45 a. m. Three semester-hour credits. Associate Professor SUTTON.

### EDUCATION

III. *Junior High School Geography*.—Same as Geology 3. At 6:55 p. m. Two semester-hour credits. Professor BASSLER.

11. *Educational Psychology*.—A rapid survey of the facts and principles of Psychology, followed by a more detailed consideration of the psychology and pedagogy of learning. At 10:05 a. m. Two semester-hour credits. Professor BROWN.

21a. *Educational Sociology*.—The school as a social institution. Principles of sociology that most concern various types of education as determined by the needs of society, economic life, and culture. Problems in curriculum revision. At 9:05 a. m. Two semester-hour credits. Professor BROWN.

21b. *Principles of Teaching*.—Principles of teaching as indicated by biology, psychology, and sociology; formulations of such principles for the guidance of practice; application to instruction in the elementary school, the secondary school and the college. At 7:45 a. m. Two semester-hour credits. Professor WYNNE.

22b. *History of Education*.—A study of the chief educational developments since the revival of learning. At 7:45 a. m. Two semester-hour credits. Professor BROWN.

24. *History of American Education*.—A study of the development of American education from colonial times to the present. At 9:05 a. m. Two semester-hour credits. Professor WRIGHT.

25a. *Secondary Education*.—The place of secondary education in the school system, types of secondary schools; courses of study; dynamic methods; administration. At 10:05 a. m. Two semester-hour credits. Professor WYNNE.

25b. *The Junior High School*.—A study of the purposes of the junior high school and the reorganization needed to achieve them; history of the movement; the curriculum; methods of instruction. At 11:05 a. m. Two semester-hour credits. Professor WYNNE.

26a. *Elementary Education*.—This course will center on the teaching of reading, language, spelling, writing and arithmetic and will emphasize both subject matter and method. The practical use of related tests and scales will be considered. At 9:05 a. m. Two semester-hour credits. Mr. ROBINSON.

26b. *Elementary Education*.—This course will center on the teaching of geography, history, citizenship, elementary science, hygiene, health, and fine and industrial arts. The organization of curricula, vitalized methods, and standardized tests will be considered. At 7:45 a. m. Two semester-hour credits. Mr. ROBINSON.

31b. *Tests and Measurements*.—A study of educational tests with consideration of the technique of their construction and administration, the interpretation of their results, and the modification of methods and programs to meet the conditions revealed. At 11:05 a. m. Two semester-hour credits. Professor WRIGHT.

33. *Teaching of History*.—A course in practical problems designed for history teachers in secondary schools, with special reference to the Junior High School. Text, lectures and special readings. At 10:05 a. m. Two semester-hour credits. Associate Professor WILGUS.

54. *Administration and Supervision*.—This course will deal with some of the problems confronting the superintendent, the supervisor, and the principal, and those preparing for such work. A paper embodying constructive scholarship will be required of each member of the class. Open to graduate students, principals, and supervisors. Others may be admitted by permission of the instructor. At 10:05 a. m. Three semester-hour credits. Professor WRIGHT.

#### ENGLISH

\*2a. *English Rhetoric*.—The course covers the text of the regular course for the first semester, including practice in composition. Lectures and conferences. At 7:45 a. m. Three semester-hour credits. Professor WILBUR and Dr. ANDERSON.

6a. *Survey of English Literature*.—First half from Beowulf to close of the eighteenth century. At 5:10 p. m. Three semester-hour credits. Associate Professor BOLWELL.

6b. *Survey of English Literature*.—Second half from Romantic Movement to contemporary writers. At 6:05 p. m. Three semester-hour credits. Associate Professor BOLWELL.

23b. *The Modern Novel*.—From Scott and Austen to contemporary American and English novelists. At 6:55 p. m. Three semester-hour credits. Associate Professor BOLWELL.

XXIV. *American Literature*.—A study of the poetry and prose of Emerson, Poe, and Whitman. At 6:05 p. m. Three semester-hour credits. Mr. SMITH.

XXVIII. *Early English Literature*.—A study in modern English translation of the most important monuments of English literature prior to 1400. At 11:05 a. m. Two semester-hour credits. Dr. ANDERSON.

XXIX. *English Romances and Balladry*.—At 10:05 a. m. Two semester-hour credits. Dr. ANDERSON.

\*32. *Shakespeare*.—The Philosophies. At 9:05 a. m. Two semester-hour credits. Professor WILBUR.

38b. *Poetry of the Romantic Movement*.—The poetry of Wordsworth, Byron, Shelley, and Keats. At 5:10 p. m. Three semester-hour credits. Mr. SMITH.



XL. *The Short Story*.—An historical survey with the emphasis on recent tendencies in the short story. Written reports and conferences. At 5:10 p. m. Three semester-hour credits. Mr. BAKER.

XLI. *The Pilgrim's Progress*.—At 10:05 a. m. Two semester-hour credits. Professor WILBUR.

XLII. *English and American Poetry since 1890*.—At 4:10 p. m. Three semester-hour credits. Mr. BAKER.

### FRENCH

1. *First-Year Course*.—For beginners. Grammar, translation, drill on pronunciation. Fraser and Squair's French Grammar (old edition). Texts to be announced. Students who complete this course successfully will be admitted to second-year course, French 3 or 4, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Assistant Professor FOSTER.

2b. *Second Semester of First-Year Course*.—Open to students who have just completed successfully one year of high school French or the first semester of first-year college French. At 6:05 p. m. Three semester-hour credits. Professor HENNING or Assistant Professor FOSTER.

4. *Second-Year Course*.—Open to students who have completed successfully two years of high school French or one year of college French. Grammar, translation, and reading. Fraser and Squair's French Grammar (old edition). First text, Dumas fils, "La Question d'argent" (D. C. Heath and Co.). Students who complete this course successfully will be admitted to third-year course, French 5 or 6, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor HENNING.

Note:—Students electing French 1 or 4 may take no class at 6 o'clock. An assignment for study will be made at the 5:10 for the 6:55 period.

7. *Composition and Conversation*.—Open to students who have completed successfully two years of high school French or one year of college French. This course may not be substituted for any part of the curriculum requirements for two years of modern languages. Students receiving grade A or B in this course may enter French 8 in the fall. At 5:10 p. m. Three semester-hour credits. M. BENÉTEAU. Given only if elected by at least ten students at the beginning of the course.

12. *Third-Year Course*.—Open to students who have completed successfully four years of high school French or two years of college French. A course in modern fiction, intended for students who wish to have facility in reading French, and some idea of French literature. It does not prepare directly for courses of the second group, "For Undergraduates and Graduates," but students who complete this course may later take Course 5 or 6 and count both courses toward the

degree, and towards the undergraduate major in Romance Languages. At 4:10 p. m. Three semester-hour credits. Professor HENNING. Given only if elected by at least ten students.

### GEOLOGY AND MINERALOGY

1. *Mineralogy*.—Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. At 7:45 a. m. and one additional hour to be arranged. Four semester-hour credits. Mr. HENDERSON.

2. *General Geology*.—Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general culture course or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-book: Cleland's Geology. From 5:10 to 6:55 p. m. Four semester-hour credits. Professor BASSLER.

3. *General Geography*.—This course presents the principles of geography by a study of the phenomena of the earth as a whole, the inter-relations of these phenomena and their influence upon human affairs. It consists of two parts: first, a study of the general geographic principles; and second, a brief survey of several regions and countries for the application of these principles. It is a general culture lecture course illustrated by charts and lantern slides. No course is prerequisite. At 6:55 p. m. Two semester-hour credits. Professor BASSLER.

IV. *Field Course on the Geography of the United States*.—This course will consist of lectures, conferences and observations on the regions traversed. The itinerary is so arranged as to allow observations in most of the geographic regions of the United States. The students will accompany a tour party and be required to attend the stated lectures and conferences and to pass examinations. Particular observations will be made in the region of the Upper Great Lakes, the Rocky Mountain Front, Utah, the Yellowstone, the west coast and the dry southwest. About June 23-July 25. Three semester-hour credits. Assistant Professor RESSER.

Note:—The University takes no responsibility for financial arrangements in connection with the tour.



## GERMAN

2. *First Year German*.—The essentials of German Grammar, translation of easy prose and poetry; beginning conversation; composition and dictation. This course is open to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. From 5:10 to 6:55 p. m. Six semester-hour credits. Mr. GROPP.

4. *Second Year German*.—This course is equivalent to the advanced German of admission requirements and it is open only to students who have passed Course 1 or 2, or who have satisfied the admission requirements in Elementary German. From 5:10 to 6:55 p. m. Six semester-hour credits. Professor SEHRT.

6. *Scientific German*.—Designed primarily for students in the scientific and engineering courses. This course may be taken by students who have passed Courses 1 and 2, or who have satisfied the entrance requirements in Elementary German. Both German 4 and 6 may be taken for credit. At 7:45 a. m. Three semester-hour credits. Mr. GROPP.

## HISTORY

Note:—For course in the Teaching of History see Education 33.

10a. *American History to 1829*.—A survey of the Colonial and early national periods with emphasis upon political history. At 5:10 p. m. Three semester-hour credits. Professor HICKS.

10b. *American History from 1829*.—Course 10a continued. May be taken separately from Course 10a. At 6:05 p. m. Three semester-hour credits. Professor HICKS.

11. *Medieval History*.—Europe from the decline of the Roman Empire through the age of geographic exploration. Texts, lectures, and quiz sections. At 5:10 p. m. Three semester-hour credits. Dr. RAGATZ.

25a. *English History*.—A general course in English history to the sixteenth century. Text, lectures, quiz sections, and parallel readings. At 6:05 p. m. Three semester-hour credits. Associate Professor WILGUS.

27. *Hispanic-American History*.—A general survey of the Spanish and Portuguese colonies in America, their transition to independent states, and their modern development. Texts, lectures and special readings. At 7:45 a. m. Three semester-hour credits. Associate Professor WILGUS.

\*38. *The French Revolution and the Napoleonic Era*.—A study of the important transitions—political, social, economic and intellectual—which occurred during the period of the French Revolution and the domination of Napoleon. At 11:05 a. m. Two semester-hour credits. Dr. RAGATZ.

45. *Modern Imperialism*.—A study of colonial expansion during the nineteenth and twentieth centuries, with special reference to the partition of Africa and Asia and overseas rivalries of the European powers. Texts and lectures. At 7:45 a. m. Three semester-hour credits. Dr. RAGATZ.

\*XLVII. *Recent American History*.—The United States from 1898 to the present time; the Spanish-American War, expansion and its diplomatic consequences, social and economic conditions, the World War and after. A term paper will be required of all students. At 9:05 a. m. Three semester-hour credits. Professor HICKS.

### LAW

A separate Bulletin is published for the work offered in the Law School.

### LIBRARY SCIENCE

1. *Cataloguing*.—This course is designed to cover the general principles of library science, with special emphasis on the elements of cataloguing. At 5:10 p. m. Three semester-hour credits. Professor SCHMIDT.

20. *Classification*.—The general principles and distinguishing characteristics of the Dewey, Cutter and Library of Congress systems are discussed and books classified according to each, with accompanying practice in shelf-listing and book-notation. Prerequisite: Course 1 or practical library work. At 6:05 p. m. Three semester-hour credits. Professor SCHMIDT.

30. *Reference and Administration*.—Prerequisite: Courses 1 and 20, or adequate library experience. Three semester-hour credits. Professor SCHMIDT. Not given in 1927.

31. *Bibliography, Book-Selection and Allied Topics*.—Prerequisite: Course 30, or adequate library experience. At 7:15 p. m. Three semester-hour credits. Professor SCHMIDT.

Note:—Courses 1 and 20 may be continued the second semester of the regular school year; and Course 31 alternates with Course 30, the two constituting the work of the third year.

### MATHEMATICS

4a. *College Algebra*.—Starting with a review of quadratics. At 5:10 p. m. Three semester-hour credits. Associate Professor CHENEY.

4b. *Geometry and Trigonometry*.—Solid geometry and all of plane trigonometry. At 6:05 p. m. Three semester-hour credits. Associate Professor CHENEY.

9a. *Plane and Spherical Trigonometry*.—This course is offered primarily for students who have had Plane Trigonometry. At 6:05 p. m. Three semester-hour credits. Associate Professor HODGKINS.



9b. *Analytic Geometry*.—This course is offered to students who have had Plane and Spherical Trigonometry. At 5:10 p. m. Three semester-hour credits. Associate Professor HODGKINS.

(Courses 9a and 9b may be taken concurrently.)

### NATURE STUDY

(See Botany and Zoology.)

### PHILOSOPHY

\*21. *Philosophy*.—This course is intended to give a general survey of the subject for beginners. At 9:05 a. m. Two semester-hour credits. Professor RICHARDSON.

26. *Logic*.—A study of the fundamental concepts of logic: induction and deduction; hypotheses; logical analyses. At 6:05 p. m. Three semester-hour credits. Professor RICHARDSON.

28. *Ethics*.—A study of the principal ethical theories from the historical and social points of view. At 6:55 p. m. Three semester-hour credits. Professor RICHARDSON.

### PHYSICS

3a. *Introductory General Physics*.—Mechanics, Heat, and Electrostatics. At 5:10 p. m. Three semester-hour credits. Professor BROWN.

3b. *Introductory General Physics*.—Magnetism and Electricity, Sound, and Light. At 6:05 p. m. Three semester-hour credits. Professor BROWN.

4a and 4b. *Laboratory Physics*.—The schedules of experiments are arranged to parallel the lecture courses, but different schedules may be arranged in special cases. 7:00-10:00 p. m. Two semester-hour credits for either course. Mr. FREDERICK.

### POLITICAL SCIENCE

1. *Government of the United States*.—A general introductory course in Political Science dealing primarily with the government of the United States, with some reference to foreign systems, chiefly by way of comparison, and surveying briefly some of the problems of political theory. At 7:45 a. m. Three semester-hour credits. Assistant Professor WEST.

3. *State Government*.—The structure and functions of the government of the states, the relation to the United States, business protection and regulation, labor, education, health, highways, finance, the police power, political parties, civil service, the initiative, referendum and recall and a brief survey of city government form the subject matter for this course. At 4:20 p. m. Three semester-hour credits. Professor HILL.

24. *Constitutional Law*.—The purpose of this course is to give the student a knowledge of the meaning of the various clauses of the Constitution of the United States. At 10:05 a. m. Two semester-hour credits. Assistant Professor WEST.

25. *Political Theory*.—The political ideas of Aristotle, Plato, Thomas Jefferson and others, the political theory of the American Revolution, the controversy over states' rights, and the development of the idea of democracy will be surveyed. At 11:05 a. m. Two semester-hour credits. Assistant Professor WEST.

29. *International Law*.—What it is. How it governs the relations of states. The protection afforded citizens and property abroad. Jurisdiction over public and private vessels. Intervention. Extradition of fugitives. Treaties and their enforcement. Diplomats and consuls, their duties and immunities. Means of redress falling short of war. At 6:05 p. m. Three semester-hour credits. Professor HILL.

31. *World Politics*.—What neo-mercantilism means. The established and conflicting claims of various nations in Africa, the Near East and Asia. The battle for concessions especially in the Far East. The policy of the United States toward Latin America. The Mandates. Efforts through the League of Nations to bring about a new order. At 5:10 p. m. Three semester-hour credits. Professor HILL.

### PSYCHOLOGY

11a. *Psychology*.—Same as Education 11. At 10:05 a. m. Two semester-hour credits. Professor BROWN.

12a. *General Psychology*.—A course in the fundamental principles underlying human behavior. At 6:05 p. m. Three semester-hour credits. Associate Professor MOSS.

12b. *Applied Psychology*.—A study of the applications of Psychology in the fields of business, industry, law, medicine, and education. At 5:10 p. m. Three semester-hour credits. Associate Professor MOSS.

50. *Seminar*.—A study of recent developments in the applications of Psychology accompanied by research work. At 7:50 p. m. Three semester-hour credits. Associate Professor MOSS.

### SPANISH

1. *First-Year Course*.—For beginners. Elements of Spanish grammar; drill in pronunciation; oral and written composition; translation of modern Spanish prose. Hills and Ford's First Spanish Course (Heath). Students who complete this course successfully will be admitted to second-year course, Spanish 3 or 4, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor DOYLE or Assistant Professor DEIBERT.



2b. *Second Semester of First-Year Course.*—Open to students who have just completed successfully one year of high school Spanish or the first semester of college Spanish. Hills and Ford's First Spanish Course (Heath); Rivera and Doyle's *En España* (Silver, Burdett). At 6:05 p. m. Three semester-hour credits. Professor DOYLE or Assistant Professor PROTZMAN.

4. *Second-Year Course.*—Open to students who have completed successfully two years of high school Spanish or one year of college Spanish. Review of grammar; composition; translation of modern Spanish prose and poetry. Seymour and Carnahan's Spanish Review Grammar (Heath); Benavente, *Tres Comedias* (Heath). Students who complete this course successfully will be admitted to third-year course, Spanish 5 or 6, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor DOYLE.

Note:—Students electing Spanish 1 or 4 may take no class at 6 o'clock. An assignment for study will be made at 5:10 for the 6:55 period.

7. *Conversation and Composition.*—Open to students who have completed successfully one year of college Spanish or its equivalent. Oral and written composition; conversation. At 6:05. Three semester-hour credits. Mr. VÁZQUEZ. (Cannot be counted to meet the curriculum requirement in modern language. Students receiving grade A or B in this course may enter Spanish 8 in the fall. Given only if elected by at least ten students at the beginning of the course.)

12. *The Modern Spanish Drama.*—Open to students who have completed successfully four years of high school Spanish or two years of college Spanish. Intended for students who wish to have facility in reading Spanish, and some idea of Spanish literature. It does not prepare directly for courses in the second group, "For Undergraduates and Graduates," but students who take this course may later take Course 5 or 6 and count both courses for the degree. Spanish 12 may be counted towards fulfillment of the requirements for a major in Romance Languages. At 6:05 p. m. Three semester-hour credits. Professor DOYLE. (Given only if elected by at least ten students.)

### ZOOLOGY

3. *Zoology.*—Invertebrates and vertebrates. A lecture and laboratory course covering the pre-medical requirement. Lecture at 5:10; laboratory, 6-9. Eight semester-hour credits. Professor BARTSCH and Miss PARKER. Text: Volumes I and II, Parker and Haswell, "A Textbook of Zoology," and Davison, "Mammalian Anatomy."

4. *Nature Study.*—An out-of-doors nature study course, concerned with observing, gathering, and studying the animal life, large and

small, found about Washington. Field trips, laboratory work, lectures, and reading. 8-10 a. m. Three semester-hour credits. Professor BARTSCH and Miss BUNDICK.

27. *An elementary course in Physiology*, intended to acquaint the student with the minute structure and function of the organs of the animal body. Text: "Elementary Physiology," by Burton-Opitz. At 6-8. Six semester-hour credits. Professor BARTSCH and Mr. McCLOSKEY.

28. *Advanced Work in Nature Study*.—By special arrangement. Four semester-hour credits. Professor BARTSCH.

50. Students who have the necessary basic training may arrange to undertake advanced work or individual research with Professor BARTSCH. Such courses will cover six semester-hour credits.









VOLUME XXVI

NUMBER 3

# George Washington University Bulletin

CATALOGUE NUMBER

JUNE, 1927



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JUNE, OCTOBER AND DECEMBER

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George Washington University  
Bulletin

CATALOGUE NUMBER

JUNE, 1927

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## CONTENTS

GENERAL:	PAGE
Calendar .....	5
Trustees .....	7
University Council .....	9
Administrative Officers .....	10
President's Council .....	11
History and Present Organization.....	12
Library .....	13
Student Activities .....	14
DEPARTMENTS OF THE UNIVERSITY:	
Department of Arts and Sciences.....	15-187
The School of Graduate Studies.....	20-26
The Colleges .....	27-47
Columbian College .....	48-55
College of Engineering.....	56-67
Teachers College .....	68-70
Schedule of Classes in Columbian and Teachers Colleges	71-79
Courses of Instruction.....	80-155
School of Pharmacy.....	156-166
Summer School .....	167-187
Department of Medicine:	
Medical School .....	188-236
School for Nurses.....	237-242
Law School .....	243-262

# STUDENTS:

	PAGE
Department of Arts and Sciences.....	265
School of Graduate Studies.....	265-274
Columbian College .....	275-297
College of Engineering.....	297-301
Teachers College .....	302-306
Summer School .....	306-315
School of Pharmacy.....	317
Medical School .....	318-323
Law School .....	324-333
General Summary .....	337
Geographical Distribution .....	338
Degrees Conferred in 1926-27.....	339-356
Allied Associations .....	357
Directory .....	359
Index .....	366



## UNIVERSITY CALENDAR

	1927	
January	31	<i>Monday</i> —Second half-year begins.
February	8	<i>Tuesday</i> —Stated meeting of the Arts and Sciences Faculty.
February	9	<i>Wednesday</i> —Meeting of the Board of Trustees.
February	22	<i>Tuesday</i> —Winter Convocation. A holiday in all departments of the University.
March	8	<i>Tuesday</i> —Meeting of the Law Faculty.
March	9	<i>Wednesday</i> —Meeting of the Board of Trustees.
April	12	<i>Tuesday</i> —Stated meeting of the Arts and Sciences Faculty and of the Law Faculty.
April	13	<i>Wednesday</i> —Meeting of the Board of Trustees.
April	18-23	<i>Monday to Saturday, both inclusive</i> —Easter Holidays.
April	18	<i>Monday</i> —Last day on which theses of candidates for the Doctorate degree at Commencement may be presented.
April	26	<i>Tuesday</i> —Davis Prize Speaking.
May	10	<i>Tuesday</i> —Meeting of the Law Faculty.
May	11	<i>Wednesday</i> —Meeting of the Board of Trustees.
May	16	<i>Monday</i> —Last day on which theses of candidates for Masters' degrees may be presented.
May	25	<i>Wednesday</i> —Final examinations, Department of Arts and Sciences, begin.
May	30	<i>Monday</i> — <i>Decoration Day</i> —A holiday in all departments of the University.
June	5	<i>Sunday</i> —Baccalaureate Sermon.
June	8	<i>Wednesday</i> —Commencement and Annual meeting of the Board of Trustees.
June	9-15	Registration for the Summer School.
June	13	<i>Monday</i> —Instruction begins in the three credits courses coming at 7:45 a. m., and in all afternoon classes in the Department of Arts and Sciences, and in all classes of the summer session of the Law School.
July	5	<i>Tuesday</i> —Instruction begins in the two credits courses in the forenoon, in the Department of Arts and Sciences Summer School.
Sept. 1-Oct.	12	<i>Thursday to Wednesday</i> —Registration period in the Law School.
Sept.	12-21	<i>Monday to Wednesday</i> —Registration period in the Department of Arts and Sciences for the session 1927-28. Students permitted to register later will be charged a late registration fee of \$5.00.
September	21	<i>Wednesday</i> —Academic year 1927-28 begins in all departments of the University.
September	27	<i>Tuesday</i> —Last day on which may be presented theses of candidates for Masters' degrees to be conferred privately in the Fall.
October	11	<i>Tuesday</i> —Stated meeting of the Arts and Sciences Faculty and of the Law Faculty.

October	12	<i>Wednesday</i> —Meeting of the Board of Trustees.
November	8	<i>Tuesday</i> —Meeting of the Law Faculty.
November	9	<i>Wednesday</i> —Meeting of the Board of Trustees.
November	24-26	<i>Thursday to Saturday</i> —Thanksgiving recess. Holiday in all departments of the University.
December	13	<i>Tuesday</i> —Meeting of the Law School Faculty.
December	14	<i>Wednesday</i> —Meeting of the Board of Trustees.
December	20	<i>Tuesday</i> —Stated meeting of the Arts and Sciences Faculty.

RECESS FROM DECEMBER 23, 1927, TO JANUARY 2, 1928, BOTH INCLUSIVE

	1928	
January	10	<i>Tuesday</i> —Last day on which theses of candidates for the Doctorate degree at the Winter Convocation may be presented.
January	10	<i>Tuesday</i> —Meeting of the Law Faculty.
January	11	<i>Wednesday</i> —Meeting of the Board of Trustees.
January	23-28	<i>Monday to Saturday</i> —Mid-Year examinations in the Department of Arts and Sciences.
January	20-30	<i>Friday to Monday</i> —Registration period for second semester in the Department of Arts and Sciences. Students permitted to register later will be charged a late registration fee of \$5.00.
January	30	<i>Monday</i> —Second half-year begins.
January	31	<i>Tuesday</i> —Last day on which theses of candidates for Masters' degrees may be presented.
February	7	<i>Tuesday</i> —Stated meeting of the Arts and Sciences Faculty.
February	8	<i>Wednesday</i> —Meeting of the Board of Trustees.
February	14	<i>Tuesday</i> —Meeting of the Law Faculty.
February	22	<i>Wednesday</i> —Winter Convocation. A holiday in all departments of the University.
March	13	<i>Tuesday</i> —Meeting of the Law Faculty.
March	14	<i>Wednesday</i> —Meeting of the Board of Trustees.

RECESS FROM APRIL 6 TO 14, BOTH INCLUSIVE

April	11	<i>Wednesday</i> —Meeting of the Board of Trustees.
April	17	<i>Tuesday</i> —Last day on which theses of candidates for the Doctorate degree at Convocation may be presented.
April	17	<i>Tuesday</i> —Stated meeting of the Arts and Sciences Faculty.
April	24	<i>Tuesday</i> —Davis Prize Speaking.
May	8	<i>Tuesday</i> —Meeting of the Law Faculty.
May	9	<i>Wednesday</i> —Meeting of the Board of Trustees.
May	15	<i>Tuesday</i> —Last day on which theses of candidates for Masters' degrees may be presented.
May	30	<i>Wednesday</i> — <i>Decoration Day</i> —A holiday in all departments of the University. Annual Meeting of the Board of Trustees.
May	31	<i>Thursday</i> —Final examinations in the Department of Arts and Sciences begin.
June	10	<i>Sunday</i> —Baccalaureate Sermon.
June	13	<i>Wednesday</i> —Commencement.
June	14-18	<i>Thursday to Monday</i> —Registration for Summer School.
June	18	<i>Monday</i> —Summer School begins.



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Mr. William T. Galliher, Washington.  
Hon. Frank H. Hitchcock, LL.M., New York City.  
Mrs. Archibald Hopkins, Washington.  
Mr. Coleman Jennings, Washington.  
Mr. F. M. Kirby, Wilkes-Barre, Pa.  
Mr. James Parmelee, Washington.  
Rev. Herbert F. Randolph, D.D., Philadelphia, Pa.  
Mr. William M. Ritter, Washington.  
Mr. Albert B. Ruddock, Washington.  
Rev. Canon J. Townsend Russell, D.D., Washington.  
Miss Nellie P. Sedgely, Washington.  
Miss Mary A. Sharpe, Washington.  
Miss Mary B. Temple, A.B., Knoxville, Tenn.  
Mr. Corcoran Thom, LL.M., Washington.  
Hon. James W. Wadsworth, Jr., LL.D., Washington.  
Mr. George W. White, Washington.  
Mr. Morris Williams, Philadelphia, Pa.  
Rev. Charles Wood, D.D., Washington.

The President of the University, Chairman *ex officio*.  
The Secretary of the University, Secretary *ex officio*.

## ADMINISTRATIVE OFFICERS

William Mather Lewis, A.M., LL.D., President (to September 1, 1927)  
Cloyd Heck Marvin, Ph.D., LL.D., President-elect  
Howard Lincoln Hodgkins, Ph.D., Sc.D., Dean of the University  
Elmer Louis Kayser, A.M., Secretary  
Charles Wendell Holmes, Treasurer

### Personnel Officers

Anna Lorette Rose, A.M., Dean of Women  
Henry Grattan Doyle, A.M., Dean of Men

## DEPARTMENT OF ARTS AND SCIENCES

Howard Lincoln Hodgkins, Ph.D., Sc.D., Dean  
Linda Jane Kincannon, A.M., Registrar  
George Neely Henning, A.M., Litt.D., Dean of the School of Graduate  
Studies  
William Allen Wilbur, A.M., Litt.D., Dean of Columbian College  
John Raymond Lapham, M.S. in C.E., Dean of the College of En-  
gineering  
William Carl Ruediger, Ph.D., Dean of Teachers College  
Louis F. Bradley, Ph.D., Dean of the College of Pharmacy  
Elmer Louis Kayser, A.M., Director of the Summer School

## DEPARTMENT OF MEDICINE

William Cline Borden, M.D., Dean  
Oscar Benwood Hunter, A.B., M.D., Assistant Dean

## LAW SCHOOL

William Cabell Van Vleck, A.B., LL.B., S.J.D., Dean  
Helen Newman, LL.M., Secretary

### University Library

Alfred Francis William Schmidt, A.M., Librarian

### Buildings and Grounds

Elmer Schatz, Superintendent



## PRESIDENT'S COUNCIL

(Arranged in Departmental Groups)

WILLIAM MATHER LEWIS, A.M., LL.D.,	<i>President</i> (to September 1, 1927)
CLOYD HECK MARVIN, Ph.D., LL.D.	<i>President-elect</i>
HOWARD LINCOLN HODCKINS, Ph.D., Sc.D.	<i>Dean of the University</i>
ELMER LOUIS KAYSER, A.M.	<i>Secretary of the University</i>
GEORGE NEELY HENNING, A.M., Litt.D.,	
	<i>Dean of the School of Graduate Studies</i>
CHARLES SIDNEY SMITH, Ph.D.	<i>Professor of Greek and Latin</i>
JOHN DONALDSON, Ph.D.	<i>Professor of Commerce</i>
WILLIAM ALLEN WILBUR, A.M., Litt.D.	<i>Dean of Columbian College</i>
DeWITT CLINTON CROISSANT, Ph.D.	<i>Professor of English</i>
CHARLES EDWARD HILL, Ph.D.	<i>Professor of Political Science</i>
JOHN RAYMOND LAPHAM, M.S. in C.E.,	
	<i>Dean of the College of Engineering</i>
ARTHUR FREDERICK JOHNSON, M.E.,	
	<i>Associate Professor of Mechanical Drawing</i>
NORRIS INGERSOLL CRANDALL, M.Arch.	<i>Professor of Architecture</i>
WILLIAM CARL RUEDIGER, Ph.D.	<i>Dean of Teachers College</i>
HENRY GRATTAN DOYLE, A.M.	<i>Professor of Romance Languages</i>
ROBERT F. GRIGGS, Ph.D.	<i>Professor of Botany</i>
ANNA LORETTE ROSE, A.M.	<i>Dean of Women</i>
WILLIAM CABELL VAN VLECK, A.B., LL.B., S.J.D.	<i>Dean of Law School</i>
CHARLES SAGER COLLIER, A.B., LL.B.	<i>Professor of Law</i>
EARL CASPER ARNOLD, A.B., LL.B.	<i>Professor of Law</i>
WILLIAM CLINE BORDEN, M.D.	<i>Dean of the Medical School</i>
OSCAR BENWOOD HUNTER, A.M., M.D.,	
	<i>Professor of Bacteriology and Pathology</i>
*HENRY E. KALUSOWSKI, M.D., Phar.D.	<i>Dean of the Pharmacy School</i>
LOUIS F. BRADLEY, Phar.D.	<i>Dean of the College of Pharmacy</i>

†Died Jan. 7, 1927.

## HISTORY AND PRESENT ORGANIZATION

### HISTORY

The George Washington University is the successor of the Columbian College in the District of Columbia which was chartered by an act of Congress approved February 9, 1821. In 1873 the name was changed to Columbian University and in 1904 to The George Washington University.

The first commencement of Columbian College was held on the 15th of December, 1824, with the President of the United States; the Honorable John Quincy Adams, Secretary of State; the Honorable John C. Calhoun, Secretary of War; the Honorable Henry Clay, Speaker of the House of Representatives, and General Lafayette among those present.

Work in the College was confined to the Arts and Sciences until March, 1825, when the Medical Department was established under the conduct of Dr. Thomas Sewall. The Medical Department is thus in the chronological order of establishment the eleventh medical school in the United States. In 1826 the Law Department was founded with the Honorable William T. Carroll and Mr. Justice Cranch as its professors. Shortly afterward the school was discontinued, but was reopened in 1865. A Theological School founded also in 1826 was soon moved to Newton, Mass., where it now flourishes. On October 1, 1884, the Corcoran Scientific School, now the College of Engineering, was founded. The School of Graduate Studies was organized in 1893. Teachers College was started as The Division of Education in 1907. In 1919, the National College of Pharmacy, organized in 1905 as an affiliated college of the University and suspended during the last year of the war, was reopened as the College of Pharmacy.

### EDUCATIONAL ORGANIZATION

#### Department of Arts and Sciences:

- School of Graduate Studies
- Columbian College
- College of Engineering
- Teachers College
- Summer School
- College of Pharmacy

#### Department of Medicine:

- The Medical School
- Nurses School

#### Department of Law



## ANNUAL COMMENCEMENT

The opening day of the session is Wednesday, September 21, 1927.

The Annual Commencement is held on June 13, 1928.

The second semester begins on Monday, January 30, 1928.

The Winter Convocation is held on February 22.

## UNIVERSITY ASSEMBLIES

The University Assemblies will be held from time to time. The attendance of students may be required.

## THE UNIVERSITY LIBRARY

The University Library comprises the Library of the Department of Arts and Sciences, the Law Library, and the Medical Library. It contains 68,000 volumes.

In addition to its general collection the Library of the Department of Arts and Sciences contains the Library of the late Professor Richard Heinzel, of the University of Vienna, containing 7,200 books and pamphlets in Germanic philology and literature, and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7,900 books and pamphlets in Greek and Roman literature, archaeology and history; the Mount Vernon Alcove, containing 4,000 volumes in political history, international law, and the social sciences. The Architectural Library contains over 2,000 volumes and the Russell Sturgis collection of 7,500 mounted photographs. About 1,000 of these volumes constitute a collection loaned by the American Institute of Architects. The Library is open to local Architects.

The Arts and Sciences Library is open from 9 a. m. to 10:30 p. m.

The Law Library, containing more than 11,000 volumes, is open from 8:30 a. m. to 10 p. m.

The Medical Library, containing more than 2,000 volumes, is open from 9 a. m. to 4 p. m.

## PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*Resolved by the Senate and House of Representatives of the United States of America in Congress assembled,* That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection

may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory.

#### STUDENT ACTIVITIES

Student Activities are supported from the University Fee of eight dollars charged all students in the University and collectible like other fees by the Treasurer. Control and direction of all student activities are vested in a Faculty Committee of Student Activities, which in turn is subject to the supervision and control of the President's Council.

*Delta Tau Delta Activity Award.*—The Gamma Eta Chapter of the Delta Tau Delta Fraternity awards each year to "that member of the senior class who throughout his course at George Washington University has done the most constructive work in the furtherance and upbuilding of the University Student Activities" a gold medal.

*Pi Beta Phi Medal.*—This medal is awarded annually by Columbia Alpha Chapter of Pi Beta Phi Fraternity to that woman member of the Senior Class who throughout her college course has done the most constructive work in the promotion of Student Activities among the women of the University.



## DEPARTMENT OF ARTS AND SCIENCES

### OFFICERS OF INSTRUCTION

- WILLIAM MATHER LEWIS, A.M., LL.D.,  
*President of the University (to September 1, 1927)*
- CLOYD HECK MARVIN, Ph.D., LL.D., *President-elect of the University*
- HOWARD LINCOLN HODGKINS, Ph.D., Sc.D. .... *Dean of the University*
- 
- JAMES HOWARD GORE, Ph.D., LL.D., Litt.D.,  
*Professor Emeritus of Mathematics*
- HOWARD LINCOLN HODGKINS, Ph.D., Sc.D. .... *Professor of Mathematics*
- CHARLES EDWARD MUNROE, Ph.D., LL.D.,  
*Dean Emeritus of the School of Graduate Studies and Professor  
 Emeritus of Chemistry*
- GEORGE PERKINS MERRILL, Ph.D., Sc.D. .... *Professor Emeritus of Geology*
- WILLIAM ALLEN WILBUR, A.M., Litt.D.,  
*Dean of Columbian College and Professor of English*
- CHARLES CLINTON SWISHER, Ph.D., LL.D. .... *Professor of History*
- PAUL BARTSCH, Ph.D. .... *Professor of Zoology*
- GEORGE NEELY HENNING, A.M., Litt.D.,  
*Dean of the School of Graduate Studies and Professor of  
 Romance Languages*
- ALBERT BURNLEY BIBB. .... *Professor of Architecture*
- CHARLES SIDNEY SMITH, Ph.D. .... *Professor of Greek and Latin*
- WILLIAM CARL RUEDIGER, Ph.D.,  
*Dean of Teachers College and Professor of Educational Psychology*
- ALFRED FRANCIS WILLIAM SCHMIDT, A.M.,  
*Librarian and Professor of Library Science*
- WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.,  
*Professor of Meteorological Physics*
- EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.,  
*Elton Professor of Mental and Moral Philosophy*
- RAY SMITH BASSLER, Ph.D. .... *Professor of Geology*
- ROBERT RUSS KERN, A.B. .... *Professor of Economics and Sociology*
- ALBERT L. HARRIS, B.S. in Arch. .... *Professor of Architecture*
- DE WITT CLINTON CROISSANT, Ph.D. .... *Professor of English*
- LOUIS COHEN, Ph.D. .... *Professor of Radio-Electricity*
- ISRAEL SCHAPIRO, Ph.D., *Professor of Semitic Languages and Literature*
- TRUMAN MICHELSON, Ph.D. .... *Professor of Ethnology*
- CHARLES EDWARD HILL, Ph.D. .... *Professor of Political Science*
- JOHN THOMAS ERWIN, A.M. .... *Professor of Mathematics*
- HIRAM COLVER McNEIL, Ph.D. .... *Professor of Chemistry*

JOHN RAYMOND LAPHAM, M.S. in C.E.,

*Dean of the College of Engineering and Professor of  
Civil Engineering*

OWEN BERT FRENCH, C.E. .... *Professor of Civil Engineering*

THOMAS BENJAMIN BROWN, Ph.D. .... *Professor of Physics*

HENRY GRATTAN DOYLE, A.M.,

*Dean of Men and Professor of Romance Languages*

FRANK ARTEMAS HITCHCOCK, C.E. .... *Professor of Civil Engineering*

ROBERT FISKE GRIGGS, Ph.D. .... *Professor of Botany*

GEORGE MORTON CHURCHILL, Ph.D. .... *Professor of History*

L. RUSSELL ALDEN, A.M., LL.B. .... *Professor of Commercial Law*

JOHN DONALDSON, Ph.D. .... *Professor of Commerce*

NOLAN DON CHARPENTIER LEWIS, M.D. .... *Professor of Psychopathology*

OSCAR BENWOOD HUNTER, A.M., M.D. .... *Professor of Bacteriology*

JOSEPH HYRAM ROE, Ph.D. .... *Professor of Bio-Chemistry*

NORRIS INGERSOLL CRANDALL, M.Arch. .... *Professor of Architecture*

SAMUEL FLAGG BEMIS, Ph.D. .... *Professor of History*

\*JAMES EDWIN HOUGHTON, M.D. .... *Professor of Preventive Medicine*

COLIN MACKENZIE MACKALL, Ph.D. .... *Professor of Chemistry*

MINNA CAROLINE DENTON, Ph.D. .... *Professor of Home Economics*

EDWIN ALLSTON HILL, Ph.D. .... *Professor of Chemistry*

EDWARD H. SEHRT, Ph.D. .... *Professor of German*

JOHN HARPER, M.D. .... *Professor of Preventive Medicine*

HARRY GRANT HODGKINS, A.B. .... *Associate Professor of Mathematics*

ELMER LOUIS KAYSER, A.M.,

*Secretary of the University, Director of the Summer School  
and Associate Professor of History*

ROBERT WHITNEY BOLWELL, Ph.D. .... *Associate Professor of English*

WALTER LYNN CHENEY, Ph.D. .... *Associate Professor of Physics*

FRED AUGUST MOSS, M.D., Ph.D. .... *Associate Professor of Psychology*

JAMES HENRY PLATT, M.E.,

*Associate Professor of Mechanical Engineering*

HAROLD GRIFFITH SUTTON, A.B., M.S.,

*Associate Professor of Economics*

NORMAN BRUCE AMES, S.B., LL.B.,

*Associate Professor of Electrical Engineering*

ARTHUR FREDERICK JOHNSON, M.E.,

*Associate Professor of Mechanical Drawing*

PHILIP K. SCHUYLER, B.S. in C.E.,

*Associate Professor of Civil Engineering*

J. ORIN POWERS, Ph.D. .... *Associate Professor of Education*

ANNA LORETTE ROSE, A.M.,

*Dean of Women and Assistant Professor of Education*

LOUIS EUGENE MCARTHUR, A.M. .... *Assistant Professor of History*

CHARLES ELMER RESSER, Ph.D. .... *Assistant Professor of Geology*

\*Resigned



CECIL KNIGHT JONES, B.Litt.....	Assistant Professor of Spanish
**RAYMOND FRANKLIN BORDEN, Ph.D.,	Assistant Professor of Mathematics
MERLE IRVING PROTZMAN, A.M.,	Assistant Professor of Romance Languages
RALPH BAXTER FOSTER, A.M.,	Assistant Professor of Romance Languages
SAMUEL BURTIS BAKER.....	Assistant Professor of Drawing and Painting
*JAMES ROBBINS RANDOLPH, B.S., M.E., M.A.,	Assistant Professor of Mechanical Engineering
PAUL HENRY BRATTAIN, B.S. in Chem.,	Assistant Professor of Chemical Engineering
WARREN REED WEST, Ph.D.....	Assistant Professor of Political Science
ALAN T. DEIBERT, A.M.....	Assistant Professor of Romance Languages
JOHN ALBERT TILLEMA, Ph.D.....	Assistant Professor of Political Science
GEORGE FARNHAM, A.B., B.D.....	Assistant Professor of Public Speaking
AUDLEY LAWRENCE SMITH, A.M.....	Assistant Professor of English
LOWELL JOSEPH RAGATZ, Ph.D.....	Assistant Professor of History
FREDERICK EUGENE FOWLE, Jr., S.B.....	Lecturer on Astro-Physics
JOHN FRANKLIN MEYER, Ph.D., Sc.D.,	Lecturer in Electricity
WINIFRED RICHMOND, Ph.D.....	Lecturer in Psychology
EMILY WAYLAND DINWIDDIE.....	Lecturer in Social Service Work
JESSIE ELIZABETH LA SALLE, M.A.....	Lecturer in Education
MRS. MITCHELL CARROLL, A.B.....	Lecturer in Archaeology
STEPHEN PANARETOFF, A.M.....	Lecturer on the Near East
FRANKLIN LIVINGSTON HUNT, Ph.D.....	Lecturer in Physics
WILLIAM MIDDLETON, A.B.....	Lecturer in Psychology
CHARLES EDWIN VAN ORSTRAND, S.M.	Lecturer on Mathematical Physics
EMELINE STORM WHITCOMB, A.M.....	Lecturer in Home Economics
LEASON HEBERLING ADAMS, B.S. in Ch.E.....	Lecturer in Chemistry
GERTRUDE RICHARDSON BRIGHAM, Ph.D.....	Lecturer in Oriental Art
MARY DABNEY DAVIS, Ph. D.....	Lecturer in Education
JOHN ARTHUR ALMQUIST, Ph.D.....	Lecturer in Chemistry
MARY C. BREEN, B.S.....	Lecturer in Education
PAUL HUGH EMMETT, Ph.D.....	Lecturer in Chemistry
HELEN DU MARESQUE PIGEON, A.B., B.S.....	Lecturer in Social Service
JAMES FREDERICK ROGERS, M.D., D.P.H.....	Lecturer in Public Health
IRA DWIGHT SCOTT, A.M.....	Lecturer in Education
LAURA ZIRDES, A.M.....	Lecturer in Education
JOSEPH ALFRED AMBLER, Ph.D.....	Lecturer in Chemistry
RALPH GILCHRIST, Ph.D.....	Lecturer in Chemistry
DORSEY W. HYDE, A.B.....	Lecturer in Social Service
MAUDE E. AITON.....	Lecturer in Education
LOUISE MCGUIRE.....	Lecturer in Social Service

\*Resigned.

\*\*Died March 15, 1927.

EDWARD CULLOM, A.M.	<i>Instructor in French</i>
FRANK MCGINLEY PHILLIPS, Ph.D.	<i>Instructor in Statistics</i>
DANIEL C. CHACE, A.B.	<i>Instructor in Journalism</i>
CHARLES FREDERICK KRAMER, A.M.	<i>Instructor in French</i>
HERBERT ALLAN EHRLMAN, B.S. in M.E.,	<i>Instructor in Mechanical Drawing</i>
ANGEL CABRILLO Y VAZQUEZ, A.M.	<i>Instructor in Spanish</i>
ANDRE MARIE GEORGES BENETEAU, B.L.	<i>Instructor in French</i>
WILLIAM JAMES WALLIS, A.M., LL.B.	<i>Instructor in Mathematics</i>
CHARLES GARFIELD EICHLIN, E.E.	<i>Instructor in Physics</i>
ROBERT LEON ALBERT, B.S. in Arch.	<i>Instructor in Architecture</i>
JAMES CHRISTOPHER CORLISS, A.B.	<i>Instructor in Spanish</i>
PAUL EUGENE GROPP, A.M.	<i>Instructor in German</i>
*GEORGE KUMLER ANDERSON, Ph.D.	<i>Instructor in English</i>
HARRY WATSON CRUM, A.B.	<i>Instructor in Physical Education</i>
VIRGINIA LOUISE HOPKINS, B.S. in Phy.Edu.,	<i>Director of Physical Education for Women</i>
OTHMAR SOLNITZKY, Ph.D., M.D.	<i>Instructor in Psychology</i>
COURTLAND DARKE BAKER, A.M.	<i>Instructor in English</i>
PAUL WILLIAM BOWMAN, A.B.	<i>Instructor in Botany</i>
CARL LEROY FREDERICK, A.M.	<i>Instructor in Physics</i>
WILLIAM FREDERICK ROESER, B.S. in E.E.,	<i>Instructor in Electrical Engineering</i>
EUGENE WEISZ	<i>Instructor in Freehand Drawing</i>
BENJAMIN DOUGLASS VAN EVERA, M.S.	<i>Instructor in Chemistry</i>
JOHN PHILIP MASON, Ph.D.	<i>Instructor in Chemistry</i>
JOHN RUSSELL MASON, A.M.	<i>Assistant Librarian</i>
WILLIAM C. MYERS, A.M.	<i>Instructor in Mathematics</i>
CLARA WELLS HERBERT	<i>Instructor in Library Science</i>
RAYMOND MCGEARY HANN, B.S. in Chem.	<i>Instructor in Chemistry</i>
FORREST ALBERT YOUNG, A.M.	<i>Instructor in Economics and Commerce</i>
WILLIAM THOMAS MCCLOSKEY, A.B.	<i>Instructor in Zoology</i>
MARY QUICK BOWMAN, A.M.	<i>Instructor in Zoology</i>
CHANDLER BAKER BEALL, A.B.	<i>Instructor in French</i>
DOUGLAS BEMENT, A.B., LL.B.	<i>Instructor in English</i>
WILLIAM JAMES BERRY, M.S., E. Met.	<i>Instructor in Mathematics</i>
CARLOS BLUME, A.M.	<i>Instructor in German</i>
RICHARD FOURCHY	<i>Instructor in Architecture</i>
EDWARD STONESTREET LAMAR, A.B.	<i>Instructor in Physics</i>
EDWARD MYERS LEE, B.S. in E.E.	<i>Instructor in Mechanical Drawing</i>
VERNON BOOTH LOWREY, A.M.	<i>Instructor in Political Science</i>
ORVILLE EDWARD MAY, A.B., M.S. in Chem.	<i>Instructor in Chemistry</i>
JOSEPH CARL OLEINIK, M.S.	<i>Instructor in Civil Engineering</i>
E. O. VON SCHWERDTNER, A.B.	<i>Instructor in Spanish</i>

\*Resigned.



EDWARD P. HENDERSON, M.S. in Chem.	<i>Instructor in Geology</i>
ERNEST SEWALL SHEPARD, A.M.	<i>Instructor in English</i>
JULIUS FREDERICK THOMAS BERLINER, Ph.D.	<i>Instructor in Chemistry</i>
FAY PIERCE BEIJ, A.M.	<i>Assistant in Zoology</i>
MRS. HARRIET EDGARRETTA CHACE	<i>Assistant in Journalism</i>
THERMA HUNT, Ph.D.	<i>Assistant in Education</i>
KATHERINE OMWAKE, A.M.	<i>Assistant in Psychology</i>
SHELDON B. AKERS, A.M.	<i>Assistant in Commerce</i>
LOUISE BANNERMAN, A.B.	<i>Assistant in Economics</i>
MRS. P. GALTSOFF	<i>Assistant in Histology and Physiology</i>
MIRIAM UHLER CHISHOLM	<i>Assistant in Library Science</i>
EDNA FICK KILPATRICK, A.B.	<i>Assistant in Home Economics</i>
MARTHA SPRIGG POOLE, A.B.	<i>Assistant in History</i>
JUNE COOPER, A.B.	<i>Assistant in Botany</i>
BLANCHE EVELYN HYDE, B.S.	<i>Teaching Fellow in Home Economics</i>
WATT STEWART, A.M.	<i>Teaching Fellow in History</i>
E. C. WINE, A.M.	<i>Teaching Fellow in History</i>
DEE HURST, A.B.	<i>Graduate Assistant in Chemistry</i>
ARTHUR EVARTS KIMBERLY, B.S. in Chem.	<i>Graduate Assistant in Chemistry</i>
RUSSELL WILSON, B.S. in Ch.E.	<i>Graduate Assistant in Chemistry</i>
PAUL DOUGHERTY McNAMEE, Sc.B.	<i>Graduate Assistant in Chemistry</i>
EDWARD M. SCHOBBER, JR., A.B.	<i>Graduate Assistant in Chemistry</i>
NORMAN E. YONGUE, B.S.	<i>Graduate Assistant in Chemistry</i>

## STUDENT ASSISTANTS

<i>Botany:</i> JUNE COOPER, ROBERT B. HUMPHREY, MARGARET MAIZE, HELEN ROBB.
<i>Chemistry:</i> NICOLAS G. BARRELLA, L. S. CAMPBELL, MRS. CORINNE DE BARYSHE, FRED C. FARRELL, GEORGE ROBERT HANSEN, SPENCER SCOTT PRENTISS, SOLOMON REZNEK, J. P. WETHERILL.
<i>Civil Engineering:</i> E. O. SEAQUIST.
<i>English:</i> HOWARD BAGGETT, ELIZABETH G. BELL, HENRIETTA BOWEN, MARTHA EDMONSTON, CLEON K. FIERSTONE, CYRUS HOAGLAND, KATHERINE LEE KEEP, DOROTHY LATIMER, MARGARET LOANE, PAULINE LONG, JAMES McLAIN, ROBERT MORROW, GRACE PURSE, ELSIE SNELLING, VINCENT STUBBS, ERMYNTRUDE VAIDEN.
<i>French:</i> MARTHA EDMONSTON.
<i>History:</i> ELIZABETH ARMENTROUT, STANLEY CLARK, IRWIN R. McCLELLAN, JOSEPH O'CONNOR, MARTHA POOLE.
<i>Library:</i> MARIAN BATES, ANITA B. BROWN, GRACE BROWN, OMAR JESSE BROWN, ROBERTA CHAPMAN, HELEN DIX, RAPHELLA SCHWARZ.
<i>Mechanical Drawing:</i> H. A. ALBURGER, R. E. COPES.
<i>Physics:</i> GENEVA DYE.
<i>Political Science:</i> LEROY BENDHEIM, PAUL D. DICKENS, JAMES T. MARTIN.
<i>Statistics:</i> MRS. MYRTLE B. FOOTR.

## SCHOOL OF GRADUATE STUDIES

### GRADUATE COUNCIL

DEAN GEORGE N. HENNING, Chairman ex-officio.

PROFESSORS S. F. BEMIS and J. T. ERWIN, terms expiring in 1928.

PROFESSORS H. G. DOYLE and N. I. CRANDALL, terms expiring in 1929.

PROFESSORS C. M. MACKALL and R. R. KERN, terms expiring in 1930.

The Graduate Council has power to pass on students' petitions, to approve provisionally students' choice of studies for the degree of Ph.D., and such other powers as the Faculty of Graduate Studies may delegate.

### HIGHER DEGREES

The higher degrees conferred in course by the University in the School of Graduate Studies are: Master of Arts (A.M.), Master of Science in Engineering (M.S. in Eng.), Master of Science in Chemistry (M.S. in Chem.), Master of Architecture (M.Arch.), and Doctor of Philosophy (Ph.D.).

### ADMISSION

Candidates for admission to courses for the Master's degree must make application to the Registrar; for the degree of Ph.D., to the Dean of Graduate Studies. Candidates must present certificates of the degrees they hold from the institutions conferring such degrees. Until such certificates are presented, registration is merely provisional. Candidates requesting advanced standing must present detailed certificates of the work for which they ask credit.

To be admitted to candidacy for the Master's degree a student must have completed an undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the course of study pursued must have been such as to qualify the candidates for pursuing the subjects chosen for the Master's or other higher degree sought.

Properly qualified students may be admitted as Students in Attendance, without becoming candidates for degrees.

### CHANGE OF COURSE AND WITHDRAWAL

A student desiring to change any course must secure the permission of the Dean. In case of withdrawal from the School, students should send prompt notice to the Dean or the Registrar, and are liable for tuition charges until such notice is received. Notification to a pro-



fessor of withdrawal from his course, does not constitute notice of withdrawal.

### DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

Candidates to attain the degree of A.M., M.S. in Eng., M.S. in Chem. or M.Arch., must complete successfully twenty-four semester hours of work, in addition to the thesis, forming a consistent plan of study. Courses may be elected from one, two or three departments. At least twelve semester hours, plus the thesis, must be in a major subject. At least twelve semester hours must be taken in the School of Graduate Studies, irrespective of the amount transferred from college or from other institutions. The minimum amount in any one subject (not course) that will be counted towards the Master's degree is six semester hours. The candidate's choice of subjects must be approved by his major department and by the Dean. Whenever possible, it is advisable for students to consult members of the major department before registering.

First Section courses, "Primarily for Undergraduates," may under no circumstances be counted towards any higher degree, though a graduate student may be allowed or if necessary as a prerequisite for advanced courses may be required to take them without receiving academic credit. Second Section courses, "For Undergraduates and Graduates," may count towards a higher degree only with the previous approval of the department concerned. Graduate students are required to do extra work in such courses. Candidates must take at least one Third Section course, "Primarily for Graduates," unless excused by the major department.

Advanced courses taken in the Senior year of college may be counted to the extent of not over twelve semester hours towards a higher degree, provided that the student shall notify the Dean of the School of Graduate Studies at the beginning of each such course of his desire to count it towards such higher degree; but no work counted towards a Bachelor's degree shall be counted also towards a higher degree.

Part of the work for the Master's degree may be taken in the Medical School or the Law School, but work so taken cannot be counted both towards the Master's degree and a degree in Medicine or Law. A candidate for the Master's degree may take not more than twelve semester hours in the Medical School or Law School, but the major subject must be taken under a member of the faculty of Arts and Sciences.

Advanced work in other institutions of learning may be credited towards the Master's degree in this University, to the extent of not more than twelve semester hours. Work completed in the Senior year

here, or in the graduate schools of other institutions, more than three years prior to registration for a higher degree here, will be counted towards such degree only if the candidate successfully passes an examination on the subject matter of the work offered for credit. No work, whether done here or elsewhere, will be credited towards a Master's degree unless the student attains at least grade "B" or its equivalent in work aggregating at least twelve semester hours and at least grade "C" on the remainder.

A student who expects to continue his studies for the Ph.D. after receiving the Master's degree is strongly advised so to plan his course from the beginning that work done for the lower degree may count for the higher.

A candidate who takes his major work in Engineering shall register for the degree of M.S. in Eng.; in Chemistry, for the degree of M.S. in Chem.; in Architecture, for the degree of M.Arch.; in any other subject, for the degree of A.M.

A candidate for a Master's degree must pass in residence and study at this University at least two semesters, or one semester and one summer session of nine weeks, or three summer sessions of nine weeks each. Students who plan to complete their work for the Master's degree in the minimum time, should consult the Dean well in advance of registering. No credit shall be granted for work done in absentia, *i. e.*, without formal instruction here or at some other institution of learning, except for the thesis, which may be completed in absentia with the permission of the department concerned.

Part-time students shall not be allowed to take over eighteen semester hours in a year (as defined above), or nine semester hours in a semester. No student shall take courses aggregating more than nine semester hours in one summer session, nor more than six if a part-time student.

A candidate for a Master's degree must present a thesis in his major subject. The thesis, which counts six semester hours towards the degree and is charged for at the same rate as courses, must be registered for by the candidate, preferably at the time of original registration. The choice of the thesis-subject must be approved by the professor in charge of the major, and recorded at the Registrar's office at least four months before the date on which the thesis is due. The student is expected to consult the professor in charge frequently in regard to the progress of work on the thesis. The thesis in its final form must have the approval of the professor in order to count towards the degree. Attention is also called to "Regulations Regarding Theses," below.



### DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred only upon students who have acquired a broad and thorough knowledge of their field of learning, as evidenced by courses followed or other formal instruction received, and who have shown marked ability in original research in some particular branch of that field, as proved by the results set forth in their theses. Formal requirements of courses and residence, although essential, are wholly subordinate to the above principle. In courses in which grades are assigned, whether followed here or elsewhere, the student must attain at least grade "B," or its equivalent, on one-half of his work and at least "C," or its equivalent, on the remainder.

### ADMISSION TO REGISTRATION

Before the student can be admitted to registration for this degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for his graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Admission to registration does not necessarily imply admission to candidacy for the Ph.D.

### ADMISSION TO CANDIDACY

To be admitted to candidacy for the degree, the student must make application to the Dean on a blank provided for that purpose, not less than twelve months after receiving his Bachelor's degree. To be admitted to candidacy, the student must have fulfilled the following requirements not later than November 1 if he expects to graduate the following June, and not later than May 1 if he expects to graduate the following February: (a) Have satisfied the Departments of French and German that he can read understandingly, in the original, French and German works pertaining to his special field, and have satisfied such other language requirements as his major department shall have prescribed; (b) have passed his preliminary examination before members of his division; (c) have selected his thesis-subject and received the approval of the subject by the major department.

### RESIDENCE

Before receiving the degree of Doctor of Philosophy, the candidate shall have spent at least three years, since receiving his baccalaureate

degree, in graduate study in recognized institutions of learning. A part-time student shall be required to devote a proportionately longer time, the amount of additional time to be determined by the student's committee. In part satisfaction of residence requirements, the candidate, in addition to his research work, must follow regular courses, to an amount prescribed by his committee. The candidate may be credited with work done at other approved institutions, but must spend at least his last year at this institution.

### CHOICE OF STUDIES

Students must in general confine their choice of studies to one of the divisions enumerated below. With the permission of the Graduate Council, all courses may be in one department, or some in one other division.

### DIVISIONS

- I. Languages and Literatures:
  - Classics, English,
  - Germanic, Romance, Semitic,
  - Comparative Literature.
- II. History and the Social Sciences:
  - Commerce, Economics and
  - Sociology, Education,
  - Ethnology, History, Law,
  - Political Science.
- III. Philosophy and Art:
  - Architecture, Art and
  - Archaeology, Education,
  - Philosophy, Psychology.
- IV. Mathematics and Physical Sciences:
  - Applied Mathematics, Architecture,
  - Astronomy, Astro-Physics,
  - Chemistry, Engineering (Chemical, Civil,
  - Electrical and Mechanical),
  - Mathematics, Meteorology,
  - Nautical Science, Physics.
- V. Biological Sciences:
  - Bacteriology, Botany, Ethnology,
  - Geology and Mineralogy, Medicine, Psychology,
  - Zoology.

### GUIDANCE OF STUDENTS

In the pursuit of studies the student shall be under the guidance of a committee consisting of the professors of the major department and



any other professor under whom he shall take work counting towards his degree. This committee shall have power to determine what work he shall complete, in regular courses or otherwise, to approve his choice of a thesis-subject, to conduct all examinations, and to determine whether he shall be recommended for the degree.

### EXAMINATIONS

Before being admitted to candidacy the student (as provided above) shall pass a preliminary oral examination before representative professors of his division. Before being recommended for the degree, he shall pass a written examination, conducted by his committee, not later than one month before Commencement, on the general field of his major subject. If successful in this, he shall be given an oral examination, conducted by members of his division, on his thesis and any subjects bearing on his work. The questions and answers to the written examination, together with the decision of the examiners, shall be sent to the Dean not later than ten days before Commencement and shall form part of the student's file.

### DOCTORAL THESES

Not later than the date specified in the University calendar, the candidate for the degree of Ph.D. shall submit a typewritten copy of his thesis and also a typewritten summary of not more than 2,500 words of the thesis. The summaries of accepted theses will be printed in a volume forming a number of the University Bulletin. After being notified that his thesis has been accepted, and before receiving his degree, the candidate shall pay to the Treasurer \$25.00 to meet the cost of printing.

Students who have received the degree of Ph.D. are urged to print their theses in full if possible.

### GRADUATION

The degree of Ph.D. will be conferred only in June and in February.

### REGULATIONS REGARDING MASTERS' AND DOCTORS' THESES

All theses for each degree sought must, in their final form, be presented by the student to the Dean by the dates announced in the University Calendar. They must previously have been typewritten on official thesis paper, which may be obtained from the Treasurer of the University. The title-page must read: [Title] by [name of candidate], a thesis submitted to the Faculty of Graduate Studies of George Washington University in part satisfaction of the requirements for the degree of [name of degree]. [Date.] The typewritten thesis must be bound in cloth or leather.

The Dean will present theses to the chairman of the committees on the candidates. Accepted theses, with their accompanying drawings, are the property of the University, and will be deposited in the University Library, but the authors of them are permitted to make copies.

#### SCHOLARSHIPS

In special cases certain of the scholarships listed on pages 31-35 may be assigned to graduate students.



## THE COLLEGES

The College session of 1927-28 begins Wednesday, September 21, 1927.

The Colleges are open to men and women.

### ADMISSION

Every applicant for admission is required to present a certificate of standing and regular dismissal from the school or college which he has last attended.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the entrance subjects. Certificates will be accepted only from accredited schools and must give in detail the grades obtained by the student, must specify the passing grade and the certifying grade, and must contain definite recommendations from the Principal in regard to admission to college. The Registrar will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificates of the College Entrance Examination Board will be accepted.

Certificates from unaccredited secondary schools will not be accepted, and applicants presenting such certificates will be admitted only on passing entrance examinations.

*The requirement for admission is a four-year high-school course, or its equivalent, amounting to fifteen "units." For prescribed studies see the specifications of each college.*

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. It includes in the aggregate not less than 120 sixty-minute hours of prepared class room work.

### SCHOLARSHIP REQUIREMENTS

1. Two-thirds of the minimum semester hours of work required for graduation must be passed with a grade of "C" or higher.
2. A full-time student (one taking twelve hours or more per week), who fails in more than half of his work during any one semester, shall be subject to be dropped. A part-time student who fails in more than half of his work during any two successive semesters, shall be subject to be dropped.
3. A student whose scholarship stands "C" or higher in less than two-thirds of the entire work attempted by him but who does not come under Rule 2, shall be placed on probation. A student shall be taken off probation after he has attained a grade of "C" or higher in at least two-thirds of the work attempted by him. A student who has been on

probation for two successive semesters shall be subject to be dropped.

4. A student who is subject to be dropped for poor scholarship shall be allowed ten days in which to appeal his case to the scholarship committee through his Dean. This committee shall investigate the causes of his failure and if these appear to be remediable and the student appears likely to succeed in his scholarship thereafter the committee may place him on probation.

5. After an interval of one semester a student who has been dropped may apply for readmission. This application must be made to the Scholarship Committee through his Dean.

6. A student on probation shall discontinue all courses in which he has failed and he shall not be permitted to take over fifteen hours if a full-time student, or over nine hours if a part-time student. While on probation he shall not represent the University on its athletic teams or in any other intercollegiate activities, nor shall he serve as an officer or member of a committee in any class or student organization.

#### PHYSICAL EDUCATION REQUIREMENTS

All freshmen students taking their work before the late afternoon hours are required to take three periods a week in Physical Education, two periods a week in the gymnasium and one lecture period in hygiene. Appointments for physical examinations will be made at the time of registration.

#### ENTRANCE EXAMINATIONS

No entrance examinations are given in the spring. Candidates for admission are advised to take the examinations of the College Entrance Examination Board which are held each spring in Washington and at other centers. Examinations will be given by the University in the fall at dates to be announced.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

#### Definition of Requirements

##### ENGLISH

##### *(Three Units)*

The requirement in English is that recommended by the National Conference on Uniform Entrance Requirements in English. This prescribes habits of correct, clear and truthful expression calling for a carefully graded course in oral and written composition, and for instruction in practical essentials of grammar. It requires also ability to read with intelligence and appreciation works of moderate difficulty, and familiarity with a few masterpieces, calling for a carefully graded course in literature.



The entrance examination will be comprehensive, testing the ability of the candidate to define clearly in writing ideas gained from books and from the life around him, and to read with accuracy and appreciation literature of varied subject matter and form. Accuracy in the technique of writing will be insisted upon.

This examination is in general like the Comprehensive Examination in English of the College Entrance Examination Board.

### LATIN

#### *Elementary (two units)*

a. I. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verb; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

II. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based on Cæsar.

b. Cæsar: Any four books of the Gallic War, preferably the first four.

#### *Advanced (two units)*

a. Cicero: Any six orations from the following list, but preferably the first six mentioned. The four orations against Cataline, Archias, the Manilian Law, Marcellus, Rosius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

b. Virgil: The first six books of the *Æneid*.

c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

### GREEK

#### *Elementary (two units)*

a. I. Greek Grammar: The topics of the examination in Greek grammar are similar to those detailed under Latin grammar.

II. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions. The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

b. Xenophon: the first four books of the *Anabasis*.

#### *Advanced (one unit)*

a. Homer: The first three books of the *Iliad* (omitting II, 494, to end).

b. Sight Translation, based on prose of no greater difficulty than Xenophon's *Anabasis*.

## • FRENCH

*Elementary (two units)*

Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duo-decimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two years' course of five periods per week.

*Advanced (two units)*

Candidates in advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1,000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

## SPANISH

*(Two units)*

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two years' course of five periods per week.

## GERMAN

*Elementary (two units)*

Candidates in Elementary German must have had a two years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of the elements of German grammar and the ability to translate simple prose into German are requisite. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.



*Advanced (two units)*

Candidates in Advanced German must have had a four years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

## HISTORY

In this subject special importance is attached to preparation in geography.

*Ancient History (one unit)*

a. Greek History.

b. Roman History.

*Mediaeval European History (one unit)**Modern European History (one unit)**English History (one unit)**American History with the Elements of Civil Government (one unit)*

## MATHEMATICS

*Elementary Algebra (one unit)*

Algebra to Quadratics: The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

*Intermediate Algebra (one-half unit)*

Quadratics, etc.: Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

*Advanced Algebra (one-half unit)*

The progressions; the elementary treatment of permutations and combinations; the use of four and five-place tables of logarithms; undetermined coefficients; the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents; the elementary treatment of the theory of equations.

*Plane Geometry (one unit)*

General text propositions, including the solution of simple original exercises and numerical problems.

*Solid Geometry (one-half unit)*

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles and the measurement of surfaces and solids.

*Plane Trigonometry (one-half unit)*

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

**PHYSICS**

*(One unit)*

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

**CHEMISTRY**

*(One unit)*

The candidate's preparation in chemistry should include:

- a. Individual laboratory work, comprising at least forty experiments. The laboratory note-book should be submitted for inspection.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one modern text-book.

*Requirements.*—The ground to be covered and the character of the work should be analogous to that required by the College Entrance Examination Board.

**ADDITIONAL SUBJECTS**

Certificates will be accepted in botany, zoology, physiology, physiography, political economy, drawing, music, and other accredited subjects in secondary schools.

*Manual-Training High School Subjects*

Technical subjects in manual-training high schools, or schools of similar grade, when duly certified, will be credited as follows:

Shopwork (not exceeding two units), domestic science and domestic art (not exceeding two units).



### *Business High School Subjects*

Commercial subjects in business high schools or schools of similar grade, when duly certified, will be credited to the extent of four units.

### ADMISSION TO ADVANCED STANDING

Due credit is given for properly certified courses of study pursued in other colleges and universities.

### SPECIAL STUDENTS

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must submit credentials showing that they are familiar with the subjects preliminary to the studies which they wish to pursue.

### SCHOLARSHIPS AND PRIZES

Applications for scholarships should be filed with the Dean of the College in which the student is to register not later than September 15. All scholarships except the Kendall Scholarship, the Elma Lewis Harvey Scholarship, and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term, or whose deportment is unsatisfactory, will be reported to the President's Council, and in the absence of extenuating circumstances the scholarships will be revoked.

### SCHOLARSHIPS FOR COMPETITION

The University offers the following scholarships to be awarded on competitive examination given at the University in the latter part of May. Holders of these scholarships are expected to pursue a regular course in one of the colleges of the Department of Arts and Sciences. No scholarship is awarded to a candidate whose examination average is below 80 per cent.

Candidates from the Washington high schools for the Kendall and the University Scholarships will be examined on nine units. These units upon which the examinations will be given are the following: the specified subjects—English (three units), Elementary Algebra (one unit), Plane Geometry (one unit), and one other language (two units); the remaining two units will be in language, history, mathematics, physics, chemistry, biology—as the candidate shall elect. The remainder of the fifteen units must be certified from the high schools.

*Kendall Scholarship.*—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that member of the graduating class of any of the Washington high schools who attains

the highest average in the entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it is exempt from tuition fees but pays the registration, university, laboratory and graduation fees.

*University Scholarships.*—The University offers also six scholarships, to be awarded annually to members of the graduating classes of any of the Washington high schools. These scholarships continue throughout the undergraduate course, and students holding them are exempt from tuition fees but pay the registration, university, laboratory and graduation fees.

*Alexandria High School Scholarship.*—The University offers each year a scholarship to a member of the graduating class of the Alexandria, Va., High School. The award of the scholarship is made by the officers of the school. This scholarship continues for one year, and the student holding it is exempt from tuition fees, but pays the registration, university and laboratory fees.

#### SCHOLARSHIPS FOR ASSIGNMENTS

*Davis Scholarship.*—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

*Mary Lowell Stone Scholarship.*—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University.

*Maria M. Carter Scholarship.*—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

*Farnham Scholarship.*—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

*Withington Scholarship.*—This scholarship was founded in 1830 by the New York Baptist Theological Seminary, to be known as the Withington Scholarship. It has an annual stipend in tuition fees of sixty dollars.

*Walker Scholarship.*—This scholarship was founded in 1824 by William Walker, Esq., of Putnam County, Georgia. It carries an annual stipend of one hundred dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

*Morehouse Scholarship.*—This scholarship was founded by Mr. A. Morehouse, of Washington, D. C., in 1861. It carries an annual stipend of sixty dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

*Nellie Maynard Knapp Scholarship Fund.*—A fund of five thousand dollars established in 1915 by the Columbian Women in memory of



its president, Mrs. Martin A. Knapp, to provide scholarships for women. Application may be made to any of the Deans in the Department of Arts and Sciences. The award is made by the scholarship committee of the Columbian Women.

*Henry Harding Carter Scholarships.*—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consists of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

*The Byron Andrews Scholarship Fund.*—A fund founded by Mrs. Belle Fisk Andrews in memory of her husband, the late Byron Andrews, to provide scholarships "For ambitious and needy students, who desire to pursue courses in English, Latin, Journalism, History, Literature or Political Science."

*Founders of Columbian Women Scholarships.*—This scholarship was established by the Columbian Women in 1920. It consists of a fund of five thousand dollars, the income from which may be assigned to a deserving woman student. Application may be made to any of the Deans of the Department of Arts and Sciences. The award is made by the scholarship committee of the Columbian Women.

*Third Columbian Women Scholarship.*—This scholarship was founded by the Columbian Women in 1925. At present it consists of a fund of \$1,270, the income from which may be assigned to a deserving woman student. Application may be made to any of the Deans in the Department of Arts and Sciences. The award is made by the scholarship committee of the Columbian Women.

*Elizabeth F. Brown Scholarship.*—This scholarship was founded by friends in memory of the late Elizabeth V. Brown. The scholarship is available for a woman student in Teachers College, and consists of the income on \$1,200. It is administered by the Columbian Women. Application may be made to the Columbian Women through the Dean of Teachers College.

*Woodhull Scholarship.*—This scholarship was founded by the late Ellen M. E. Woodhull and consists of six hundred dollars, the income from which may be assigned to a deserving student.

*The Elma Lewis Harvey Scholarship.*—This scholarship was founded in 1921 by Mrs. Emma Elizabeth Harvey, in memory of her daughter, and is to be awarded every four years, or as often as vacant, to a young woman of the Protestant faith and of the Caucasian race who shall be selected for scholarship and moral qualifications.

*The John Hitz Metzgerott Scholarship.*—This scholarship was established in 1923 in memory of John Hitz Metzgerott, M.D. '91, by members of his family, and is to be awarded every six years, or as often as vacant, to a young man preparing to enter the medical profession.

*The David Spencer Scholarship Fund.*—This fund was established by a bequest from Louisa J. Spencer. The income is used to aid in defraying the expenses of students who meet certain conditions established by the terms of the bequest.

*Admiral Powell Endowment.*—The Admiral Powell Endowment was made by Admiral Levin M. Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examinations as warrant officers in the Engineering Department of the Navy, to warrant officers who are preparing for examination for appointment as Ensign, to persons desiring to enter the Navy as Acting Ensigns for engineering duty, or to those who desire to fit themselves for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship.

*Ministerial Aid.*—The University authorizes the remission of a stated amount in tuition fees, to be called Ministerial Aid, which may be given to students, resident in the District of Columbia or its immediate vicinity in the regular courses of Columbian College, preparing for the ministry and not yet ordained. Any student receiving Ministerial Aid may be called upon for clerical or like work to the extent of not more than one hour a week for every twelve dollars of tuition remitted, and of not more than four hours in any one week.

*University Aid.*—The University authorizes the remission of a stated amount in tuition fees, to be called University Aid, which may be loaned to undergraduate students in regular courses in the Department of Arts and Sciences whose circumstances warrant pecuniary assistance. Any student receiving University Aid is expected to repay it as soon as possible. In occasional instances he may be enabled, while still a student, to repay it in part or whole through clerical or like service rendered the University.



*The Henry Strong Educational Foundation.*—From this fund established under the Will of General Henry Strong of Chicago, an annual allotment of \$600 is made to George Washington University for loan scholarships available for the use of young men and women students under the age of twenty-five years, preferably in the upper classes, to aid them in obtaining a "practical, literary, scientific, mechanical or business education."

*D. A. R. Loan Fund.*—The District of Columbia Daughters of the American Revolution have established a student loan fund, the income from which will be given as a scholarship or a loan to the daughter of a member of the Daughters of the American Revolution in the District of Columbia. The principal of this fund is \$326 at present, and is being increased.

*Loan Scholarships.*—A limited number of other loan fund scholarships are available to students under advantageous conditions. Applications should be made to the Treasurer of the University.

#### PRIZES

(Only candidates for degrees may compete for these prizes.)

*Staughton and Elton Prizes.*—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

*Ruggles Prizes.*—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

*Davis Prizes.*—The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of five dollars, ten dollars, and of fifteen dollars annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College." Only members of the Senior Class are eligible to compete for these prizes.

*Daughters of the American Revolution Prize.*—This prize, founded by the Daughters of the American Revolution of the District of Columbia, consists of a gold medal, awarded annually to the student in the graduating class who, having maintained a high standing in the several courses in History offered by the University, shall produce the best essay upon an assigned topic of American history.

*The Thomas F. Walsh Prize.*—This prize, established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the several courses in History, shall produce the best essay upon a designated period of the History of England in its association with the History of Ireland.

*E. K. Cutter Prize.*—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to the member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

*Willie E. Fitch Prize.*—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

*The Gardiner G. Hubbard Memorial Prize.*—This is a prize in American History established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that member of the graduating class who has during four years maintained a high standing in the several classes in History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

*Muth Prize.*—George F. Muth & Co. offer a slide rule to the student who makes the highest record in Mechanical Drawing 1.

*James Macbride Sterrett, Jr., Prize.*—Founded by the late Professor James Macbride Sterrett, in memory of his son, consists of a gold medal annually awarded to that student who obtains the highest average in Physics 1.

*The Alexander Wilbourne Weddell Prize.*—From a fund established by a gift of Mrs. Virginia Chase Weddell, an annual prize of two hundred and fifty dollars is awarded to a student of the University, who is registered for a degree, for the best essay upon the subject of "the promotion of peace among the nations of the world." The prize essays shall become the property of the University and shall not be printed or published without the written consent of the University. The University reserves the right to withhold the award if no essay attaining the required degree of excellence is submitted.

*The Chi Omega Prize in Social Sciences.*—Phi Alpha Chapter of the Chi Omega Fraternity offers a prize of \$25 in Social Sciences. The prize will be awarded to the girl in the graduating class with



the highest record in the Social Sciences combined with general excellence. The Social Sciences include Economics, Sociology, Commerce, and Political Science.

*Sigma Kappa English Prize.*—An annual prize of a set of books to the value of ten dollars is offered by the Sigma Kappa Sorority to the student passing the best examination in the year's work in English Rhetoric. All members of the classes in English Rhetoric are eligible for this special examination, which will be given during the final examinations.

*Phi Mu Prize in Playwriting.*—An annual prize is offered by the Phi Mu Fraternity for a one-act play of approved excellence written by a student in the University. The award will be made by the English Department of the University, and the George Washington University Players shall have the opportunity to give the first production of the play.

*Sigma Kappa Prize in Chemistry.*—A prize of ten dollars is offered annually by Zeta Chapter of Sigma Kappa Sorority to that student who passes the best examination in Freshman Chemistry.

*Genevieve Chatterton McCutchins Prizes.*—Two cash prizes of twenty-five dollars and fifteen dollars may be awarded annually for the best and the next best essays on subjects connected with Archaeology or Painting. In their award consideration will be given to students' knowledge of contemporary literature, history, or music, as relating to the progress of fine arts. These prizes are open to both graduates and undergraduates.

*Kappa Alpha Prize in Economics.*—An annual prize of ten dollars is offered by the Alpha Nu Chapter of Kappa Alpha Fraternity for the best essay on a subject in the field of Economics. The essays will be judged by a committee of three, consisting of the Professor of Economics, a member designated by the Fraternity and a third member designated by the first two. The essays must be submitted by the first of May.

*The Alpha Chi Sigma Senior Medal for Excellence in Chemistry.*—A gold medal is offered annually by the Alpha Pi Chapter of Alpha Chi Sigma Fraternity to the graduating student who has attained the highest average in chemical subjects, provided that he has completed an amount of chemistry equal to the minimum required for a degree in Chemistry or Chemical Engineering and that at least three-fourths of this work has been done at George Washington University.

*The Alpha Chi Sigma Freshman Prize in Chemistry.*—A prize of ten dollars is offered annually by the Alpha Pi Chapter of Alpha Chi Sigma Fraternity to the male student majoring in chemistry and taking not less than eighteen semester hours per year who has attained the highest average in either Chemistry 3 or Chemistry 4.

*Dietzgen Prizes.*—The Eugene Dietzgen Co. offers two prizes, each consisting of a drop bow pen, to students making the highest record in Machine Drawing. One prize is awarded to the best student in the morning class and the other prize to the best student in the evening class.

*Dietzgen Prize in Architecture.*—The Eugene Dietzgen Co. offers a water color set to the freshman making the highest record in Architectural Drawing.

*Chemical Society Prize.*—A medal is offered annually to that student belonging to the society who presents the best paper during the year.

*Sigma Tau Prize.*—The Xi Chapter of Sigma Tau offers annually a gold medal to the freshman in the College of Engineering who maintains the highest scholastic standing throughout the year.

*Goddard Medal in Commerce.*—This prize was founded by Mary W. Goddard, Alice Douglas Goddard and Frederick J. Goddard, of Georgetown, D. C., in memory of Morgan Richardson Goddard, and is awarded to the student making the highest average in Commerce. The prize consists of a gold medal and twenty-five dollars in gold.

*Goddard Medal in Pharmacy.*—This prize was founded by Mary W. Goddard, Alice Douglas Goddard and Frederick J. Goddard, of Georgetown, D. C., in memory of James Douglas Goddard, and is awarded to the student making the highest average in Pharmacy.

*Goddard Medal in French.*—This prize was founded by Mary W. Goddard, Alice Douglas Goddard and Frederick J. Goddard, of Georgetown, D. C., in memory of Edward Carrington Goddard, class '81, and is awarded to the student making the highest average in the French language and literature.

*Círculo Español Cervantes Medal.*—The Spanish Club of the University, El Círculo Español, offers annually a bronze medal for the best essay dealing with a subject chosen from the life or works of Miguel de Cervantes Saavedra. Essays must be submitted on or before April 1, and the prize will be awarded on April 23, the anniversary of the death of Cervantes.

*Alpha Delta Theta Prize in Chemistry.*—A gold medal is offered annually by Phi Sigma Sorority to that woman student who maintains the highest average standing in Chemistry 3 or 4, exclusive of second semester final examinations.

*Kappa Delta Scholarship Prize.*—The Kappa Delta Fraternity offers, annually, a silver loving cup to that girl of the Freshman Class, registered for a degree in one of the colleges of the Department of Arts and Sciences, who attains the highest average during her first year of not less than twenty-four semester hours of work.



*Alpha Delta Pi Prize.*—Alpha Pi Chapter of the Alpha Delta Pi Fraternity offers an annual prize of ten dollars to the student doing the best work in third-year French.

*Engineering Society Prize.*—The Engineering Society offers annually a gold medal, bearing the insignia of the Society, to the student presenting before the Society the best speech on a technical subject.

*Livingston Prize.*—The Livingston Co. offers a handbook on Mechanical Engineering to the undergraduate making the highest record in the study of Machine Design.

*Heaton Prizes in Architecture.*—Mr. Arthur B. Heaton has presented two sets of architectural books to be awarded as prizes to the two students having the highest grades in the courses on architectural design.

*Delta Zeta Sorority* offers annually a prize of \$10.00 in gold to be awarded to the student maintaining the highest average in General Botany.

*The Gamma Beta Pi Sorority* offers annually a gold medal for excellence in Botany. Details concerning this award may be obtained from the Department of Botany.

*The Episcopal Club of George Washington University* gives an annual prize of ten dollars for an essay on a subject to be announced each year. This prize is open to freshmen or sophomores who are taking a course in mediaeval history.

#### DAVIS PRIZE SPEAKING

The Davis Prize Speaking is held on the second Tuesday after the Easter holidays. The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to Professor Croissant not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, appointed by the Department of English.

#### PRIZE AWARDS, 1925-1926

Davis Prizes in Public Speaking.—First Prize: Frank Smith; Second Prize: George E. O'Connor; Third Prize: Raymond C. Weber.

Daughters of the American Revolution Prize.—Helen McCollam.

Thomas F. Walsh Prize.—Anna L. Ericson.

E. K. Cutter Prize.—Frank Smith.

Gardner C. Hubbard Prize.—Joseph L. O'Connor.

Muth Prize.—R. E. Copes.

Colonial Dames Prize.—George E. O'Connor.

Alexander Wilbourne Weddell Prize.—Catherine Cate Coblenz.  
 Honorable Mention: Ora Marshino.  
 Chi Omega Prize in Sociology.—Alvin McNish.  
 Sigma Kappa Prize in English.—Mary F. Bugbee.  
 Genevieve Chatterton McCutchins Prizes.—First Prize: Sonia Yossour; Second Prize: Adelaide Dwyer.  
 Dietzgen Prize in Machine Drawing.—A. C. Hugin.  
 Dietzgen Prize in Architecture.—Avril Stewart.  
 Goddard Medal in Commerce.—Augustus I. Hasskarl.  
 Goddard Medal in French.—Elizabeth Masterson.  
 Phi Sigma Prize in Chemistry.—Elizabeth Hewston.  
 Alpha Delta Pi Prize.—Donald Gooch.  
 Livingston Prize.—W. B. Lawrence.  
 Heaton Prizes in Architecture.—First Prize: George H. Riggs, Jr.;  
 Second Prize: Donald Chenowith Kline and Robert D. Barnes.  
 Delta Zeta Prize in Botany.—Thurza Suter.  
 Gamma Beta Pi Gold Medal.—Frances Margaret Milburn.  
 Political Science Club Annual Award in American Government.—  
 James B. May.

#### HIGH SCHOOL SCHOLARSHIPS, 1925-1926

Kendall Scholarship.—Lewis N. Dembitz, Central High School.  
 First University.—Frank Harvey Weitzel, Western High School.  
 Second University.—Virginia Shull, Central High School.  
 Third University.—John Reed Swanton, McKinley Technical High School.  
 Fourth University.—William Washington Dyer, Jr., Central High School.  
 Fifth University.—Louise Wilton Cocke, Central High School.  
 Sixth University.—Joseph Sorrell, McKinley Technical High School.

#### RESERVATION OF RIGHT TO CHANGE RULES

Registration in the Department of Arts and Sciences is for a period of one year at a time. Acceptance of a student does not in any way obligate the University to accept the student for any subsequent year. The right is reserved to drop any student whenever, in the interest of the student or the University, the faculty deem it advisable to do so, or to modify or change the requirements, rules and fees of the University.

#### ASSEMBLIES AND CHAPEL

A University Assembly will be held weekly at which an address will be made by a prominent visiting or local speaker. This Assembly will usually be on Wednesday at 12.10 p. m.



Chapel exercises will usually be held at 12.10 p. m. on Monday and Friday.

Assemblies for full-time freshmen women will be held on Tuesdays at 12.10 p. m. in Corcoran Hall I. These are conducted by the Dean of Women and cover in the first semester general topics of college interest, and in the second semester a general survey of vocations.

### PAYMENT OF FEES

Regulations prescribed by the Board of Trustees of the University

1. That no student be permitted to perfect registration or to attend classes until the initial payment is made. The initial payment to include registration fee, first semester University fee, special advance fees, and the October installment of tuition.

That after registration by a student no part of the initial payment shall be returnable except the adjustment of laboratory deposits.

2. That subsequent monthly installments are due and payable on the first of each month; and, if payment is not made by the tenth of the month, and in the absence of special arrangements for payment, the Treasurer be required to notify the delinquent that if payment is not received by the sixteenth of the month the name will be automatically dropped from the rolls. If payment is not received on or before the sixteenth of the month, the Treasurer be required to notify the Dean of the Department in which the student is registered that, under the regulations of the Board of Trustees, his name is automatically dropped from the rolls and that attendance may not be resumed except upon payment of a reinstatement fee of \$3.00 and all accrued fees, and after a formal reinstatement by the Dean.

3. That no student may register in any department of the University who owes fees in any other department of the University; and, that no student may re-register in any year who owes fees from any previous year.

### Changes in Courses

4. That all adjustments in courses be made before the tenth of October for the first semester and before the tenth of February for the second semester, after which dates no changes in courses will be permitted without the approbation of the Dean of the department in which the student is registered and the payment of \$2.00 for each change.

### STEPS IN REGISTERING

1. (a) Submission of credentials for entrance by new students.

(b) Applicants who have attended other institutions of collegiate rank must present credentials also for the work pursued in these institutions, together with a statement of honorable dismissal from the institution last attended.

(c) The applicant will be notified of the acceptability of the credentials presented.

(d) Applicants are not permitted to register until the credentials stated in (a) or (b) have been filed.

2. The applicant whether a former student or a new student should prepare a statement of the courses he desires to take. This statement should give the catalogue number of the course and should be accompanied by a schedule showing the exact hours for each course selected. A form for this schedule may be obtained from the Registrar.

3. In preparing the statement specified in 2, the applicant should seek the advice of the Registrar or of the Dean. Students planning to specialize in a particular line should seek advice of the head of the department or of his authorized representative, in selecting their courses. It is very important that students who are beginning or continuing work on their major should obtain the advice and approval of the head of the department in which the major lies.

4. After the proposed course of study has been determined, the student should go to the Registrar's office and fill out the proper application blanks. The Registrar will then furnish the applicant with a statement of the amount of the first payment.

5. The applicant will then make the required payment in the Cashier's office. The receipt for this payment is to be shown the Registrar and the registration will be approved.

6. The applicant is now entitled to attend classes.

#### TIME OF REGISTRATION

Students may register any time before the opening of the University in the fall or before the opening of the second semester, but the period from September 12 to September 21 both inclusive, and the week preceding the opening of the second semester, are designated as registration periods. During these periods special effort is made to facilitate the registration of students.

Students are cautioned to make every effort to complete their registrations before the close of the registration period. A late registration fee of \$5.00 will be assessed in all cases where such effort has not been made.

As evidence that a student has made proper effort to register, or to change his registration, on time, the Dean or Registrar is authorized to issue a dated card to the student who has conferred with the Dean or Registrar during the registration period, but who has found it impossible to complete or to change his registration before the close of that period.

It is of first importance that students attend classes from the beginning of the semester. After the first week of the semester, students



are not admitted to classes except on the written approval of the Dean. After the second week of the semester, students are not admitted to classes for credit.

All registrations are for the college year, unless otherwise stated in the registration paper, and a student is liable for all charges for courses for which he has registered unless changes have been made with the approval of the proper officers. A student who is obliged to withdraw from the University during the college year, or to drop a course before its completion, should immediately report in person or in writing to his Dean for permission to change. Reporting the dropping of a course to an instructor does not constitute sufficient notice of a desire to discontinue the course.

## FEES

1. Annual registration fee.....	\$2.00
2. Late registration fee.....	5.00
3. Tuition fee for each semester-hour credit of courses leading to all degrees except Ph.D.....	7.00
A maximum fee of \$210 is charged for courses aggregating not more than eighteen hours a week.	
Special permission is required to register for more than eighteen hours during any semester, and students who obtain such permission will be charged additional fees for the hours in excess of eighteen.	
4. Tuition fee per annum for graduate courses leading to the degree of Ph.D.....	210.00
5. Beaux Arts registration fee (annual).....	7.50
For students taking one or more of the courses Architecture 5, 7, 9, 25, 26, 27, 47.	
6. Laboratory courses:	
Material fees:	
Architecture 2, 3, 5, 6, 7, 9, 25, 26, 27, 30, 33, 34, 35, 47; each .....	2.00
Botany 1.....	10.00
Botany 23, 24; each.....	5.00
Chemistry 22, 24, 26; each.....	2.50
Chemistry 1, 2, 23, 24, 36; each.....	5.00
Chemistry 3, 4, 10, 38; each.....	10.00
Chemistry 16, 20, 29, 41, 46, 91, 93; each.....	15.00
Civil Engineering 27.....	5.00
Electrical Engineering 4, 24; each.....	10.00
Experimental Psychology .....	2.00
Geology 1 .....	5.00
Home Economics 1, 2, 5, 6; each.....	10.00
Home Economics 13, 14, 15, 16; each.....	5.00

Home Economics 29.....	\$6.00
Mechanical Engineering 9, 10, 11; each.....	5.00
Physics 2, 4; each.....	10.00
Preventive Medicine 51.....	10.00
Zoology 1 .....	5.00
Zoology 2, 3; each.....	10.00
Deposits to cover breakage of apparatus issued, the amount paid in excess of breakage to be returned:	
Chemistry 22, 23, 24, 26; each.....	5.00
Chemistry 1, 2, 3, 4, 36, 38; each.....	10.00
Chemistry 10, 16, 20, 29, 41, 46, 91, 93; each.....	15.00
7. Microscope rental in Zoology 1, 2, 3, and Chemistry 22, 23, 24, 25.....	5.00
8. Reinstatement fee .....	3.00
9. Fee for certificates under the seal of the University.....	2.00
10. Fee for graduation.....	11.00
11. University fee .....	8.00

*The tuition fees stated in items 3 and 4 apply to students entering the Department of Arts and Sciences in 1925-26 or later. Students who were in attendance during the session of 1924-25 and have remained in continuous attendance since then will be charged tuition fees in accordance with the statements in the catalogue of 1924-25.*

#### UNIVERSITY FEE

To insure them certain privileges and benefits, all students in the University are charged a University fee of \$4.00 per semester, by which they are entitled to the following:

1. Gymnasium privileges, including participation in intra-university athletic sports.
2. The University Hatchet, the official student newspaper issued weekly.
3. Medical and Hospital benefit as follows:
  - (a) Three visits by the University physician, office or home, in any one illness, exclusive of a specialist or surgical operation.
  - (b) Room, board, medicine, and undergraduate nursing in the University Hospital for not more than two weeks during the school term; necessity to be determined by the University surgeon.
  - (c) This benefit does not include: Treatment for illness or disability incurred previous to University term or prior to payment of fee.
4. Admission to all home athletic contests.
5. Admission to University debates.
6. Admission at special rates to other University events.
7. Use of the University tennis courts.



Students will not be assigned desks in the Chemical Laboratory until they exhibit a receipt for the payment of the laboratory deposit, or present an authorization from the Dean.

Students unable to pay their fees monthly in advance will be required to furnish as security an acceptable personal or corporate bond for \$250, for which a charge of \$3.00 will be made.

All fees are payable at the office of the Treasurer of the University, 2033 G Street.

For catalogues, application blanks, and further information, address

THE REGISTRAR,

*The George Washington University,*

*2033 G Street, Washington, D. C.*

## COLUMBIAN COLLEGE

### ADMISSION

Candidates for admission to the Freshman Class in Columbian College must meet the general admission requirement (p. 24) of fifteen units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirement must include English, 3 units; Algebra, 1 unit; Plane Geometry, 1 unit; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

No secondary school work is credited towards a college degree. For admission to advanced standing or as special students, see p. 31.

### REQUIREMENTS FOR DEGREES

The undergraduate degree offered by Columbian College is Bachelor of Arts. To be recommended for this degree, the student must satisfy the admission requirements, and must complete at least one hundred and twenty semester hours of undergraduate courses *at least thirty semester hours of which (or twenty-four semester hours in the combined courses), and one year in residence, must be completed in the Department of Arts and Sciences.* Residence may be satisfied, in whole or in part, in the Summer School, by periods aggregating not less than thirty weeks. A semester hour of credit is one recitation or lecture a week or one laboratory period a week for one semester. No time limit for the course is prescribed and the degree is given when the total of prescribed and elective studies is completed and the residence requirement satisfied.

*Amount of Work.*—Fifteen hours a week constitutes a normal year's work. More than eighteen hours may not be taken, except under unusual circumstances, with special permission.

*Quality of Work.*—Two-thirds of the number of semester hours required for graduation must be passed with a grade of "C" or higher.

*"With Distinction."*—One grade of special distinction is recognized in awarding the Bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least 'B' (90 per cent) on courses representing at least sixty (60) per cent of all hours taken by them be submitted by the Dean to the Faculty of the department in which the student shall be studying for a degree;

"That the Faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With



Distinction' to students who shall have fulfilled the conditions above specified."

*Suggestions.*—Information about all studies is given in the alphabetical arrangement of subjects under "Courses of Instruction."

Most courses come three times a week, either on Monday, Wednesday and Friday, or on Tuesday, Thursday and Saturday. Most general culture subjects are given in two sections, one early in the day and one late. Students who have all their time for college work should take the early sections. The late sections are given in the last two periods, at 5.10 o'clock or at 6.10 o'clock, in order to afford to those employed in Government offices the opportunities of college study. Teachers in the public schools can usually take also the courses announced for 4 o'clock. When the college work is limited to the last two periods and the evening laboratory periods, the length of the course is generally six years.

#### FOR THE DEGREE OF BACHELOR OF ARTS

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study amounting to at least one hundred and twenty semester hours, and satisfy the specifications of a curriculum group.

There are four curriculum groups, each leading to the degree of Bachelor of Arts. Every candidate for the degree of Bachelor of Arts selects one of these groups, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

A foreign language that is begun in satisfaction of a curriculum requirement must be continued the following year.

Sophomores are free to elect any first or second section subject for which the work of the Freshman year has prepared them.

#### THE CURRICULUM GROUPS

- I. General.
- II. Commerce.

- III. Pre-Legal.
- IV. Pre-Medical.

##### I—GENERAL

FRESHMAN YEAR		Semester Hours
English 1 or 2.....		6
Foreign Language .....		6
History or Political Science.....		6
Mathematics or Natural Science.....		6
Elective .....		6
Total.....		30

## DEPARTMENT OF ARTS AND SCIENCES

*Electives Recommended to Freshmen.*

Chemistry 1, 2, 3, or 4.	History.
Botany 1.	Physics 3 and 4.
Foreign Languages.	Political Science 1 and 3 or 2 and 4.
Geology.	Zoology 1.
Mathematics.	

SOPHOMORE YEAR	<i>Semester Hours</i>
English 5 or 6; or 7 or 8.....	6
Foreign Language .....	6
History or other Social Science.....	6
Elective .....	12
Total.....	30

## JUNIOR AND SENIOR YEARS

The work of the Junior and Senior years is elective, subject to the following restrictions:

1. Before graduation a major of not less than twenty-four semester hours must be completed in an approved subject, usually one of the following:

Ancient Language.	Mathematics.
Biological Science.	Modern Language.
Economics and Commerce.	Philosophy and Psychology.
English.	Physical Science.
History.	Political Science.

The candidate's choice of studies comprising the major shall be subject to the approval of the major department. Courses of an elementary or introductory character shall not be counted as satisfying the twenty-four-hour requirement for a major unless specifically approved by the major department. Students are required to select and file with the Registrar a choice of major subject at the beginning of the Junior year.

2. Not less than thirty semester hours of work shall consist of second or third section courses.

## II—COMMERCE

(Foreign and Domestic)

FRESHMAN YEAR	<i>Semester Hours</i>
English 1 or 2.....	6
Modern Language .....	6
European History .....	6
Political Science 1 and 3 or 2 and 4.....	6
Elective .....	6
Total.....	30



SOPHOMORE YEAR		<i>Semester Hours</i>
Economics 1 or 2.....	.....	6
Modern Language .....	.....	6
American History .....	.....	6
Elective .....	.....	12
Total.....	.....	30

## JUNIOR AND SENIOR YEARS

The work of the Junior and Senior years is elective except that a major of not less than twenty-four semester hours must be chosen from courses pertaining to foreign or domestic commerce. General regulations are the same as in Curriculum Group I. For information concerning selection of major courses students should consult the Commerce section of the catalogue.

## III—PRE-LEGAL

FRESHMAN YEAR		<i>Semester Hours</i>
English 1 or 2.....	.....	6
Mathematics or Natural Science.....	.....	6
History .....	.....	6
Political Science 1 and 3 or 2 and 4.....	.....	6
Modern Language .....	.....	6
Total.....	.....	30

SOPHOMORE YEAR		<i>Semester Hours</i>
American or English History.....	.....	6
Economics 1 or 2.....	.....	6
Logic and Ethics.....	.....	6
Modern Language .....	.....	6
Elective .....	.....	6
Total.....	.....	30

The work of the Junior and Senior years is elective, subject to the same restrictions as those of Group I, except that the first year of law will satisfy the major requirement.

## IV—PRE-MEDICAL

## FRESHMAN YEAR

	<i>Semester Hours</i>
Chemistry 4 .....	8
Zoology 3 .....	8
English 1 or 2 .....	6
Modern Language .....	6
Elective .....	2
Total.....	30

## SOPHOMORE YEAR

Physics 3 and 4.....	10
Chemistry 16 .....	8
Modern Language .....	6
Psychology .....	6
Total.....	30

## JUNIOR AND SENIOR YEARS

The work of the Junior and Senior years is elective, subject to the same restrictions as those of Group I, except that the first year of medicine will satisfy the major requirement.

COMBINED SIX-YEAR COURSE FOR THE DEGREES OF  
BACHELOR OF ARTS AND BACHELOR OF LAWS

Professional courses in Law will be credited towards the degree of Bachelor of Arts to the extent of thirty semester hours. On the completion of ninety semester hours of work in college, *at least eighteen semester hours of which must be taken in the Department of Arts and Sciences*, including all of the required subjects in some one of the curriculum groups, and of the first year of the regular course in the Law School, the student will receive the degree of Bachelor of Arts. This combined course contemplates three years of college study and three years in the Law School. The effect is to shorten the period of study for the two degrees one year.

COMBINED SEVEN-YEAR COURSE FOR THE DEGREES OF  
BACHELOR OF ARTS AND DOCTOR OF MEDICINE

Professional courses in Medicine will be credited towards the degree of Bachelor of Arts to the extent of thirty semester hours. On the completion of ninety semester hours of credit in college, *at least eighteen semester hours of which must be taken in the Department of*



*Arts and Sciences*, including all of the required subjects in some one of the curriculum groups, preferably Group IV, and on the completion of the first year of the regular course in the Medical School, the student will receive the degree of Bachelor of Arts. This combined course contemplates three years of college study and four years in the Medical School. The effect is to shorten the period of study for the two degrees one year.

#### SPECIAL COURSE FOR ADMISSION TO THE MEDICAL SCHOOL

FIRST YEAR	Semester Hours
Chemistry 4 .....	8
English 1 or 2 .....	6
Zoology 3 .....	8
Electives (including French or German) .....	8
Total semester hours .....	30
SECOND YEAR	
Physics 3 and 4 .....	10
Chemistry 16 .....	6
Electives other than Natural Science .....	14
Total semester hours .....	30

The Council on Medical Education of the American Association states: "Of the sixty semester hours required as the measurement of two years' work, at least eighteen, including the six semester hours in English, should be in subjects other than the physical, chemical, or biologic science."

The completion of the minimum requirement of two years of college work for admission to the Medical School, one or both of which have been taken in George Washington University, does not obligate the University to admit such student to its Medical School.

#### PUBLIC SERVICE COURSES

Many of the courses offered in the University are particularly designed for those preparing for the higher branches of the public service, both at home and abroad. Such students, undergraduate and graduate, are referred to the description of courses in Commerce (and the Commerce Curriculum), Economics, History, Modern Languages, and Political Science. They may take work leading to a degree (A.B. or A.M.) with specialization in courses which especially prepare for public service.

### FOREIGN SERVICE

The principal government departments sending representatives abroad are the Department of State and the Department of Commerce; their requirements for entrance into the foreign service are indicated below. Private industrial, financial, and commercial concerns also employ persons with appropriate training for service abroad. In addition, the above mentioned departments, as well as other branches of the Government, require staffs of experts for home office work dealing with foreign problems. By appropriate choice of a major and of elective courses a student may obtain a thorough training for such service.

#### FOREIGN SERVICE—DEPARTMENT OF STATE

An act of Congress of May 24, 1924, provides for the reorganization of the Foreign Service, and consolidates the Consular and Diplomatic services so far as status of personnel and requirements for entrance are concerned. A bulletin entitled "American Foreign Service" reads, in part, as follows:

"Scope of Examination: The examination will be in two parts, one written and the other oral, each part counting equally. The written examination will include the subjects prescribed by the President, to wit: Modern languages (French, Spanish, or German is required, and a candidate may offer, in the oral test, in addition to one of these any languages with which he may be familiar); elements of international, commercial, and maritime law; political and commercial geography; the natural, industrial, and commercial resources and commerce of the United States with especial relation to the possibilities of trade expansion and protection; American history, government and institutions; the history since 1850 of Europe, Latin America, and the Far East, with particular attention to political and economic tendencies; and the elements of political economy. Candidates will be examined in arithmetic as used in commercial statistics, tariff calculations, exchange and simple accounting, and they will be rated in English, composition, grammar, punctuation, spelling, and penmanship as shown by their replies to questions in the written examination.

"The oral examination will be designed to ascertain the physical, mental, and temperamental qualifications of candidates for the proper performance of the duties of the Foreign Service; their character, ability, address, judgment, and fitness, general education and culture, and contemporary information, experience and business ability."

#### FOREIGN SERVICE—DEPARTMENT OF COMMERCE

A bulletin entitled "Appointments to Positions at Home and Abroad in the Bureau of Foreign and Domestic Commerce," with reference to "Qualification Standards," reads, in part, as follows:



"Some of the requirements may be enumerated as follows:

"(f) Knowledge of the fundamental principles as well as the practical routine and the chief problems of international trade.

"(g) General knowledge of the history, institutions, and present economic conditions of the country in which the assignment is made.

"(h) Thorough understanding of the principles of political economy and their application to domestic and foreign commerce.

"(i) A broad knowledge of the resources of the United States and familiarity with the industrial development of the country in its relation to the export trade.

"(j) Some knowledge of international law, diplomatic procedure, and the methods and regulations of government departments and bureaus is desirable."

#### REGISTRATION PROCEDURE AND PAYMENT OF FEES

See pages 41-45.

## COLLEGE OF ENGINEERING

### ADMISSION

Candidates for admission to the Freshman Class in the Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, Chemistry and Physics Courses are required to present fifteen units for admission, distributed as follows:

	<i>Units</i>
English .....	3
Foreign Language (preferably French, German or Spanish)* .....	2
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry .....	½
Chemistry .....	1
Physics .....	1
History .....	1
Electives .....	3
<b>Total.....</b>	<b>15</b>

Candidates for admission to the Freshman Class in the Architectural Course are required to present fifteen units for admission, distributed as follows:

	<i>Units</i>
English .....	3
Foreign Language (preferably French)**.....	2
History .....	1
Chemistry .....	1
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry .....	½
Electives .....	4
<b>Total.....</b>	<b>15</b>

\*French or German required for students of Chemical Engineering and Chemistry.

\*\*Students who do not present French for entrance must complete two (2) years of this language at the University instead of the one year required of those students who do present French for entrance.

For detailed description of the requirements in each preparatory subject, see page 26.

For admission to advanced standing or as a special student, see page 31.



## COURSES FOR A DEGREE

Seven courses are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.
- IV. CHEMICAL ENGINEERING.
- V. CHEMISTRY.
- VI. PHYSICS.
- VII. ARCHITECTURE.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, in Mechanical Engineering, in Chemical Engineering, in Chemistry, and in Physics, respectively; and Bachelor of Architecture. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the appropriate undergraduate degrees, and lead to the degrees of Master of Science in Engineering, Master of Science in Chemistry and Master of Architecture.

## REGISTRATION PROCEDURE

For registration and fees see pages 41-45.

## ATTENDANCE AND SCHOLARSHIP

The normal schedule for students in the College of Engineering is seventeen or eighteen periods per week. Only in exceptional circumstances will students be permitted to take more than this amount of work.

Part-time students should usually take not more than nine periods per week and only in exceptional cases will they be permitted to take more than ten periods per week.

For further regulations in regard to scholarship requirements, see pages 24-43.

## PART-TIME STUDENTS

The class hours are so arranged that persons who can give only part of their time to college work may complete a full engineering course and obtain a degree. Classes in all the general studies of the engineering courses and in most of the technical subjects are regularly scheduled in the two class periods from 5.10 o'clock to 6.55; and other technical courses are given in alternate years in these periods. Drawing and laboratory courses for part-time students are scheduled from 7.30 to 10.30 p. m.

## REQUIREMENTS FOR DEGREES

To be recommended for a degree in the College of Engineering students must satisfy all entrance requirements and must complete at least one hundred and forty semester hours of undergraduate work of which thirty semester hours or more must be completed at George Washington University. A semester hour of credit is one recitation or lecture a week or one laboratory or drawing period a week for one semester.

The arrangement of the subjects in each of the degree courses is shown below. The numbers following the names of subjects refer to the courses as given in the list of Department Subjects beginning on page 78, to which reference should be made for more complete description.



CIVIL ENGINEERING COURSE LEADING TO THE DEGREE OF  
BACHELOR OF SCIENCE IN CIVIL ENGINEERING

FRESHMAN YEAR		Semester-Hour Credits
Chemistry 4 .....	General Chemistry.	8
English 1 or 2 .....	Rhetoric.	6
French, German or Spanish .....		6
Mechanical Drawing 1, 8 .....	Mechanical Drawing; Descriptive Geometry.	6
Mathematics 9 or 12 .....	Trigonometry; Analytic Geometry.	6
Electives .....		2
SOPHOMORE YEAR		
Civil Engineering 1, 3, 4, 20 .....	Surveying; Highway Engineering; Materials of Construction; Higher Surveying.	14
Commerce 33 .....	Commercial Law.	4
Mathematics 18 or 19 .....	Calculus.	6
Physics 1, 2 .....	General Physics; Laboratory Physics.	12
JUNIOR YEAR		
Applied Mathematics 20, 21, 22 .....	Mechanics; Hydraulics, Mechanics of Materials.	12
Civil Engineering, 2, 22, 29 .....	Railroad Engineering; Theory of Structures; Practical Astronomy.	14
Electrical Engineering 1 .....	Engineering Electricity.	4
Geology 12 (or Geology 2) .....	Engineering Geology.	4
Mechanical Engineering 9 .....	Engineering Laboratory.	2
SENIOR YEAR		
Civil Engineering 21, 23, 24, 27 .....	Hydraulic Engineering; Theory of Structures; Sanitary Engineering; Reinforced Concrete.	26
Mechanical Engineering 33 .....	Engineering Economics.	2
Electives .....		6

# ELECTRICAL ENGINEERING COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

## FRESHMAN YEAR

Identical with Civil Engineering Course.

## SOPHOMORE YEAR

	<i>Semester-Hour Credits</i>
Civil Engineering 4.....	4
Materials of Construction.	
Commerce 33 .....	4
Commercial Law.	
Mathematics 18 or 19.....	6
Calculus.	
Mechanical Drawing 2 .....	4
Machine Drawing.	
Mechanical Engineering 1.....	6
Mechanism.	
Civil Engineering 5.....	2
Elementary Surveying.	
Physics 1, 2.....	12
General Physics; Laboratory Physics.	

## JUNIOR YEAR

Applied Mathematics 20, 21, 22.....	12
Mechanics; Hydraulics; Mechanics of Materials.	
Mathematics 31, 32.....	4
Special Topics; Differential Equations.	
Electrical Engineering 2, 4.....	10
Direct Current Theory and Machinery; Laboratory.	
Mechanical Engineering 9, 20.....	8
Laboratory; Thermodynamics.	
Mechanical Engineering 33.....	2
Engineering Economics.	

## SENIOR YEAR

Electrical Engineering 21, 22, 23, 24, 26, 27, 29, 30.....	25
Alternating Currents; Electrical Distribution; Elements of Transmission; Electrical Engineering; Laboratory; Hydro-Electric Stations; Electric Railways; Electrical Illumination; Design.	
Mechanical Engineering 10, 30.....	4
Laboratory; Internal Combustion Engines.	
Electives .....	5



# MECHANICAL ENGINEERING COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

## FRESHMAN YEAR

Identical with the Civil Engineering Course.

SOPHOMORE YEAR	<i>Semester-Hour Credits</i>
Civil Engineering 4.....	4
Materials of Construction.	
Commerce 33 .....	4
Commercial Law.	
Mathematics 18 or 19.....	6
Calculus.	
Mechanical Drawing 2.....	4
Machine Drawing.	
Mechanical Engineering 1.....	6
Mechanism.	
Physics 1, 2.....	12
General Physics; Laboratory Physics.	

## JUNIOR YEAR

Applied Mathematics 20, 21, 22.....	12
Mechanics; Hydraulics; Mechanics of Materials.	
Civil Engineering 22.....	3
Structures.	
Mechanical Engineering 9, 20, 23, 24, 32, 33.....	16
Engineering Laboratory; Thermodynamics; Hy- draulic Machinery; Methods of Manufacture; Engineering Administration; Engineering Eco- nomics.	
Electrical Engineering 1.....	4
Engineering Electricity.	

## SENIOR YEAR

Civil Engineering 5.....	2
Elementary Surveying.	
Electrical Engineering 5.....	4
Electrical Laboratory.	
Mechanical Engineering 10, 11, 25, 27, 29, 30, 31, 34.....	25
Engineering Laboratory; Machine Design; Power Plants; Heating and Ventilating; Internal Com- bustion Engines; Steam Turbines; Refrigeration.	
Electives .....	4

CHEMICAL ENGINEERING COURSE LEADING TO THE DE-  
GREE OF BACHELOR OF SCIENCE IN CHEMICAL  
ENGINEERING

FRESHMAN YEAR	<i>Semester-Hour Credits</i>
Chemistry 4 .....	8
General Chemistry.	
English 1 or 2.....	6
Rhetoric.	
Mathematics 9 or 12.....	6
Trigonometry; Analytic Geometry.	
Mechanical Drawing 8 and 3.....	4
Descriptive Geometry; Mechanical Drawing.	
Modern Language* .....	6
French or German.	
Physics 3 .....	6
Introductory Physics.	
SOPHOMORE YEAR	
Chemistry 10 .....	8
Theoretical Chemistry; Qualitative Analysis.	
Mathematics 18 or 19.....	6
Calculus.	
Mechanical Engineering 1.....	6
Mechanism.	
Modern Language* .....	6
French or German.	
Physics 12 .....	8
Physics Problems.	

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\*Students who offer two units of French for entrance take German the Freshman and Sophomore years.

Students who offer two units of German for entrance take German the Freshman year and French the Sophomore year.

Students who offer two units of each language for entrance take French and German, one the Freshman year and the other the Sophomore year.

Students who offer four units of one language for entrance take the other language in both the Freshman and Sophomore years.



JUNIOR YEAR		<i>Semester-Hour Credits</i>
Applied Mathematics 20 and 22.....	Mechanics; Mechanics of Materials.	8
Chemistry 16 .....	Organic Chemistry.	8
Chemistry 30 .....	Industrial Chemistry.	6
Electrical Engineering 1.....	Engineering Electricity.	4
Geology 1A.....	Mineralogy.	4
Mechanical Engineering 20.....	Thermodynamics.	6
SENIOR YEAR		
Applied Mathematics 21.....	Hydraulics.	4
Chemistry 20 .....	Quantitative Analysis.	8
Chemistry 31 .....	Chemical Engineering.	6
Chemistry 35 and 36.....	Physical Chemistry.	8
Chemistry 49 .....	History of Chemistry.	2
Mechanical Engineering 10.....	Mechanical Laboratory.	2
Mechanical Engineering 33.....	Engineering Economics.	2
Electives .....		2

**CHEMICAL COURSE LEADING TO THE DEGREE OF BACHELOR  
OF SCIENCE IN CHEMISTRY**

FRESHMAN YEAR		<i>Semester-Hour Credits</i>
Chemistry 4 .....	General Chemistry.	8
English 1 or 2.....	Rhetoric.	6
Mathematics 9 or 12.....	Trigonometry; Analytic Geometry.	6
Mechanical Drawing 8 and 3.....	Descriptive Geometry; Mechanical Drawing.	4

<i>Freshman Year—cont'd</i>	<i>Semester-Hour Credits</i>
Modern Language* .....	6
French or German.	
Physics 3 .....	6
Introductory Physics.	

## SOPHOMORE YEAR

Chemistry 10 .....	8
Theoretical Chemistry; Qualitative Analysis.	
Geology 1B.....	6
Mineralogy.	
Mathematics 18 or 19.....	6
Calculus.	
Modern Language* .....	6
French or German.	
Physics 12 .....	8
Physics Problems.	

## JUNIOR YEAR

Chemistry 16 .....	8
Organic Chemistry.	
Chemistry 20 .....	8
Quantitative Analysis.	
Chemistry 30 .....	6
Industrial Chemistry.	
Chemistry 41 .....	4
Advanced Inorganic Chemistry.	
Modern Language* .....	6
French or German.	
Electives .....	4

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\*Students who offer two units of French for entrance take French the Freshman year and German the Sophomore and Junior years.

Students who offer two units of German for entrance take German the Freshman year and French the Sophomore and Junior years.

Students who offer two units of each language for entrance take one year of French and two years of German.

Students who offer four units of one language for entrance take the other language the Freshman and Sophomore years, and elect six semester-hour credits the Junior year.



SENIOR YEAR		Semester-Hour Credits
Chemistry 23 .....	Chemical Microscopy.	4
Chemistry 29 .....	Qualitative and Quantitative Organic Analysis.	6
Chemistry 35 and 36.....	Physical Chemistry.	8
Chemistry 45 and 46.....	Advanced Organic Chemistry.	8
Chemistry 49 .....	History of Chemistry.	2
Electives .....		6

PHYSICAL SCIENCE COURSE LEADING TO THE DEGREE OF  
BACHELOR OF SCIENCE IN PHYSICS

FRESHMAN YEAR		
Physics 3 .....	Introductory Physics.	6
Mathematics 9 or 12.....	Trigonometry and Analytical Geometry.	6
Chemistry 4 .....	General Chemistry.	8
English 1 or 2.....	Rhetoric.	6
French or German.....		6

SOPHOMORE YEAR		
Physics 12 .....	Physics Problems.	8
Mathematics 18 or 19.....	Calculus.	6
Chemistry 10 .....	Theoretical Chemistry and Qualitative Analysis.	8
Mechanical Drawing 1, 8.....	Mechanical Drawing and Descriptive Geometry.	6
French or German.....		6

JUNIOR AND SENIOR YEARS		
Physics 20, 22, 23.....	Mechanics and Heat, Electricity and Magnetism, Light and Sound.	18
Physics 25 .....	Advanced Laboratory Physics.	8

<i>Junior and Senior Years—cont'd</i>	<i>Semester-Hour Credits</i>
Mathematics 31, 32.....	4
Special Topics, Differential Equations.	
Economics 1 or 2.....	6
Principles of Economics.	
Electives* .....	38

### COURSE IN ARCHITECTURE LEADING TO THE DEGREE OF BACHELOR OF ARCHITECTURE

#### FRESHMAN YEAR

Architecture 1, 2, 3, 4, 5, 8, 10, 12.....	22
Architectural Drawing; Elementary Antique; Elements of Architecture; Shades and Shadows; Elementary Design; History of Architecture; Principles of Composition, Pencil and Pen and Ink Rendering.	
Mechanical Drawing 8.....	2
Descriptive Geometry.	
Mathematics 15 .....	6
Analytic Geometry and Calculus.	
English 1 or 2.....	6
Rhetoric.	

#### SOPHOMORE YEAR

Architecture 6, 7, 9, 15, 20, 21.....	24
Advanced Antique; Architectural Design; Pencil and Pen and Ink Rendering; History of Architecture; Building Construction.	
Physics 3 .....	6
General Physics.	
French 3 or 4.....	6

#### JUNIOR YEAR

Architecture 22, 25, 26, 30, 31, 33.....	24
Mechanical Equipment; Architectural Design; Life Class; Historic Ornament; Water Color.	

\*Schedules for the Junior and Senior years should be arranged by conference with the Physics Department, and must be approved by that department. Approximately two-thirds of the electives should be technical studies, i.e., courses in Physics, Chemistry, or Engineering.



<i>Junior Year—cont'd</i>	<i>Semester-Hour Credits</i>
Applied Mathematics 23.....	6
Statics and Mechanics of Materials.	
Economics 1 or 2.....	6
Principles of Economics.	

## SENIOR YEAR

Architecture 27, 28, 34, 42, 45, 46, 47.....	32
Architectural design; History of Art; Life Class; Office Practice; Professional Relations; Architec- tural Humanities; Architectural Design.	

## TEACHERS COLLEGE

Teachers College provides a four years' college course. The first two years are devoted to a foundation of general culture courses, and the last two to professional courses and to specialization in the subjects which the student expects to teach. The schedule of courses is arranged so as to meet the convenience of both full-time and part-time students. By attending afternoon and Saturday classes, teachers in the schools of Washington and vicinity may complete all the requirements for a degree without giving up their positions.

### ADMISSION

Candidates for admission to the Freshman Class must meet the general admission requirements (p. 24) of fifteen units. *Three of these must be in English, one in Algebra, one in Plane Geometry, and two in one of the following languages: Latin, Greek, French, German, or Spanish.* The remainder of the required fifteen units may be satisfied by any accredited secondary subjects.

All persons capable of satisfying the entrance requirements are admitted as regular students. Others may be admitted as *special students* to certain classes on the presentation of evidence that they are qualified to pursue the work to advantage.

### ADVANCED STANDING

Students transferring from normal schools, colleges, and other schools of similar rank will be admitted to such advanced standing as the courses they have pursued warrant. Graduates of normal schools with two-year courses resting upon graduation from an approved four-year high school are granted forty-eight semester hours of advanced standing. No college credit is given for secondary school work.

### REQUIREMENTS FOR GRADUATION

On the completion of courses of study amounting to at least 126 semester hours, the University confers the degree of Bachelor of Arts and a Bachelor's Diploma in Education. A minimum of one full year of work, that of the senior year, must be completed in residence. Summer School work may be counted on residence, but in no case may the periods of attendance aggregate less than thirty weeks.

*Amount of Work.*—Fifteen hours a week constitute a normal program of work. More than eighteen hours may not be taken except by special permission justified by unusual circumstances.



*Quality of Work.*—Two-thirds of the minimum number of semester hours required for graduation must be passed with the grade of "C" or higher. The following grades are given: A, excellent; B, good; C, average; D, passing; E, conditioned; F, failure; and I, incomplete. A course that has been failed must be repeated in order to be credited. A "condition" may be removed within one year under conditions set by the instructor.

*"With Distinction."*—Graduation "With Distinction" is recommended by vote of the Faculty as follows: The names of all students who have received a mark of at least B on courses representing at least sixty (60) per cent of the work completed by them are referred by the Dean to the Faculty who, after consideration of each case, designate those deemed most worthy of being awarded their degrees "With Distinction."

REQUIRED SUBJECTS		Semester Hours
Biological Science .....		6
English .....		12
Foreign Language .....		12
History .....		12
Psychology .....		6
Philosophy .....		6
Principles of Education and Teaching .....		4
History of Education .....		3
Observation and Practice Teaching .....		6
Electives in Education .....		9

A foreign language must be carried through the second college year of the language, or equivalent, while in history it is required that a survey of the world's history be obtained.

Before graduation a student must complete a minimum of twenty-four semester hours of work in a major field. The candidate's choice of studies comprising the major shall be subject to the approval of the major department. Courses of an elementary or introductory character may not be counted as satisfying the twenty-four-hour requirement for a major unless specifically approved by the major department. The major must be chosen by the beginning of the junior year. At least thirty semester hours of work must consist of second and third section courses.

### SUGGESTED PROGRAMS FOR THE FRESHMAN AND SOPHOMORE YEARS

	<i>Semester Hours</i>
<b>FRESHMAN YEAR</b>	
Botany or Zoology.....	6
English 1 or 2.....	6
Foreign Language .....	6
History .....	6
Elective .....	6
	—
	30
<b>SOPHOMORE YEAR</b>	
English 5 or 7.....	6
Foreign Language .....	6
History .....	6
Psychology .....	6
Elective .....	5
	—
	30

### NORMAL SCHOOL GRADUATES

Graduates of approved normal schools may satisfy the requirements in Education by the completion of twelve semester hours of work, exclusive of the six semester hours of credit granted for successful teaching experience. The requirements in the general subjects may be waived to the extent that corresponding courses have been completed in the normal school. The unsatisfied requirements in these fields should be determined in consultation with the Dean.

### EXPERIMENTAL WORK

Teachers College maintains a psychological laboratory for introductory experimental work. The equipment is specially adapted to the investigation of problems of interest to students of education.

The school system of a large city, moreover, offers abundant opportunity for observation and for the study of methods and other practical educational problems.

### TEACHERS' APPOINTMENT BUREAU

Teachers College maintains a Teachers' Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the University, to secure positions as teachers. This service is performed gratuitously, in the interest of both students and of superintendents of schools and boards of education wishing to employ teachers,



# SCHEDULE OF CLASSES IN COLUMBIAN COLLEGE AND TEACHERS COLLEGE

	<i>Course</i>	<i>Monday, Wednesday, Friday</i>	<i>Instructor</i>
9.10	Economics 1A.....	Principles of Economics.....	Young
	Education 20 A & B.....	Principles of Teaching, etc.....	Ruediger
	English 7.....	Types of Literature.....	Croissant
	French 1A.....	First Year French.....	Protzman
	German 1A.....	First Year German.....	Gropp
	History 7, 8.....	Gen. European History.....	Ragatz
	History 36.....	Diplomatic Hist. of U. S.....	Bemis
	Mathematics 3A.....	Alg., Geom., Trig.....	Hodgkins, H.G.
	Mathematics 5A.....	Alg., Trig.....	Berry
	Phy. Edu. 1.....	Hygiene and Gym. Exercises.....	Hopkins
	Pol. Sci. 1-3A.....	U. S. Govts., State Govts.....	Tillema
	Psychology 30A.....	Abnormal Psychology.....	Moss
	Psychology 31A.....	Psychological Tests.....	Moss
	Spanish 1A.....	First Year Spanish.....	Deibert
10.10	Economics 1B.....	Principles of Economics.....	Young
	Education 22, 24.....	History of Education.....	Powers
	English 36.....	Neo-Classical Movement.....	Croissant
	English 39, 40.....	Wordsworth, Browning.....	Wilbur
	French 3A.....	Second Year French.....	Henning
	German 1B.....	First Year German.....	Gropp
	German 23.....	The German Drama.....	Sehrt
	Greek A.....	Elementary Course.....	Smith
	History 9.....	American History.....	Bemis
	Mathematics 9A.....	Trig., Analytic Geom.....	Erwin
	Mathematics 9B.....	Trig., Analytic Geom.....	Berry
	Phys. Edu. 1.....	Hygiene and Gym. Exercises.....	Hopkins
	Pol. Sci. 1-3B.....	U. S. Govt., State Govts.....	West
	Pol. Sci. 21.....	Comparative European Govts.....	Tillema
	Pol. Sci. 36.....	Govts. of Latin America.....	Tillema
	Psychology 11.....	Psychology.....	Moss
	Spanish 1C.....	First Year Spanish.....	Protzman
	Spanish 3A.....	Second Year Spanish.....	Doyle
	Spanish 3C.....	Second Year Spanish.....	Corliss
11.10	Botany 8.....	Heredity.....	Griggs
	Chemistry 3A.....	General Chemistry.....	McNeil
	Economics 29, 30.....	Banking, Public Finance.....	Sutton
	French 3C.....	Second Year French.....	Deibert
	French 3D.....	Second Year French.....	Foster
	French 28.....	Liter., 1850 to present time.....	Henning

<i>Course</i>	<i>Monday, Wednesday, Friday</i>	<i>Instructor</i>
German 3.....	Second Year German.....	Gropp
Greek 2.....	Xenophon, etc.....	Smith
Library Science 2A.....	Classification.....	Schmidt
Mathematics 3B.....	Alg., Geom., Trig.....	Hodgkins, H. G.
Mathematics 5B.....	Alg., Trig.....	Berry
Mathematics 19.....	Calculus.....	Hodgkins, H. L.
Phys. Edu. 1.....	Hygiene and Gym. Exercises.....	Hopkins
Pol. Sci. 1-3C.....	U. S. Govt., State Govts.....	Tillema
Sociology 20A.....	Experimental Sociology.....	Kern
Spanish 5.....	Third Year Spanish.....	Doyle
Physics 3A.....	Introductory Gen. Physics.....	Brown
1.10 Chemistry 20.....	Laboratory.....	Van Evera
Phys. Edu. 2.....	Dancing.....	Hopkins
2.10 Commerce 24A.....	Ind. and Com. Geography.....	Donaldson
Education 32.....	Mental and Edu. Tests.....	Rose
German 7.....	Rapid Readings.....	Sehrt
Latin 1.....	Livy, etc.....	Smith
Pol. Sci. 1-3D.....	U. S. Govt., State Govts.....	West
3.10 Commerce 38, 40.....	Transportation.....	Donaldson
Greek 1.....	Herodotus, etc.....	Smith
Zoology.....	Pre-Medical.....	Bartsch
4.10 English 24.....	American Liter.....	Smith
French 5.....	19th-17th Century.....	Henning
French 50.....	Old French.....	Doyle
Latin 2.....	Cicero, etc.....	Smith
5.10 Archaeology.....	Introductory Study.....	Carroll, Mrs.
Architecture 21.....	Building Construction.....	Fourchy
Art 25.....	Oriental Art.....	Brigham
Botany 21.....	Evolution.....	Griggs
Commerce 44.....	Inter. Econ. Relations.....	Donaldson
Economics 24, 25.....	Hist. of Econ. Thought; Prob.....	Kern
Economics 35, 33B.....	Corp. Fin.; Investments.....	Sutton
Education 25 A & B.....	High Sch.; Jun. High Sch.....	Powers
English 2.....	Rhetoric.....	Wilbur
English 30.....	Ren. and Eliz. Liter.....	Bolwell
English 47.....	Journalism.....	Chace
French 2A.....	First Year French.....	Deibert
French 7A.....	Comp. and Conversation.....	Beneteau
French 21.....	Liter. of 17th Century.....	Henning
German 2A.....	First Year German.....	
German 4.....	Second Year German.....	Gropp
German 25.....	Survey of German Liter.....	Sehrt
History 10.....	American History.....	Bemis



SCHEDULE OF CLASSES

73

<i>Course</i>	<i>Monday, Wednesday, Friday</i>	<i>Instructor</i>
History 25.....	English History.....	Churchill
Library Science 30, 31.....	Admin., Bibliog., etc.....	Schmidt
Mathematics 12A.....	Trig., Analytic Geom.....	Hodgkins, H. G.
Mathematics 18A.....	Calculus.....	Hodgkins, H. L.
Philosophy 28, 22.....	Ethics; Prin. of Philosophy.....	Richardson
Philosophy 26.....	Logic.....	Ruediger
Physics 20.....	Mech., Molecular Phys., Heat.....	Brown
Pol. Sci. 24.....	Constitutional Law.....	West
Pol. Sci. 34.....	Near East.....	Panaretoff
Psychology 12.....	Psychology.....	Moss
Spanish 2A.....	First Year Spanish.....	Foster
Spanish 4A.....	Second Year Spanish.....	Corliss
Spanish 6.....	Third Year Spanish.....	Jones
Spanish 7A.....	Conversation and Comp.....	Vazquez
Spanish 22.....	Liter., 16th and 17th Cent.....	Doyle
Zoology 1.....	Invertebrates.....	Bartsch
6.10 Chemistry 3B.....	General Chemistry.....	McNeil
Chemistry 31.....	Chemical Eng.....	Brattain
Commerce 24B.....	Industrial and Com. Geog.....	Donaldson
Economics 2.....	Principles of Economics.....	Sutton
English 6.....	Survey of English Liter.....	Bolwell
English 32.....	Shakespeare.....	Wilbur
English 38.....	Romantic Movement.....	Smith
French 2B.....	First Year French.....	Foster
French 2E.....	First Year French.....	
French 8.....	Adv. Comp. and Conversation.....	Beneteau
Geology 1B.....	Mineralogy.....	Bassler
German 2B.....	First Year German.....	
German 6.....	Scien. and Tech. German.....	Gropp
German 8.....	Third Year German.....	Sehrt
History 26.....	History of the West.....	Churchill
Library Science 20.....	Classification.....	Schmidt
Mathematics 12B.....	Trig., Analytic Geom.....	Hodgkins, H. G.
Philosophy 24.....	History of Philosophy.....	Richardson
Physics 3B.....	Introductory Physics.....	Brown
Pol. Sci. 2-4A.....	U. S. Govt., State Govts.....	West
Pol. Sci. 2-4B.....	U. S. Govt., State Govts.....	Tillema
Psychology 30M.....	Abnormal Psychology.....	Moss
Psychology 31M.....	Psychological Tests.....	Moss
Spanish 2B.....	First Year Spanish.....	Corliss
Spanish 8.....	Adv. Course in Conversation.....	Vazquez
Zoology 26.....	Histology and Physiology.....	Bartsch
7.30 Chemistry 20.....	Laboratory.....	Van Evera

	<i>Course</i>	<i>Tuesday, Thursday, Saturday</i>	<i>Instructor</i>
9.10	Economics 35, 33A.....	Corp. Finance; Investments.....	Sutton
	English 5.....	Survey of English Liter.....	Bolwell
	English 45.....	The Short Story.....	Bement
	French 1B.....	First Year French.....	Protzman
	French 1C.....	First Year French.....	Deibert
	German 1C.....	First Year German.....	Schrt
	History 5, 6.....	Ancient History.....	Kayser
	History 44.....	History of France.....	Ragatz
	Philosophy 21, 27.....	Prin. of Philosophy; Ethics.....	Richardson
	Philosophy 25.....	Logic.....	Ruediger
	Pol. Sci. 1-3E.....	U. S. Govt., State Govts.....	Hill
	Spanish 1B.....	First Year Spanish.....	Foster
	Zoology.....	Pre-Medical.....	Bartsch
10.10	Economics 1C.....	Principles of Economics.....	Young
	English 1.....	Rhetoric.....	Wilbur
	English 23.....	Development of the Novel.....	Bolwell
	French 3B.....	Second Year French.....	Foster
	History 37.....	Renaissance and Reformation.....	Kayser
	Italian 1.....	First Year Italian.....	Beall
	Mathematics 24, 25.....	Theory of Equation, etc.....	Erwin
	Philosophy 23.....	History of Philosophy.....	Richardson
	Physics 1A.....	General Physics.....	Cheney
	Pol. Sci. 29, 30.....	International Law.....	Hill
	Spanish 3B.....	Second Year Spanish.....	Protzman
11.10	English 9.....	English Composition.....	Bement
	English 42.....	English Liter. since 1890.....	Baker
	History 28.....	English History.....	Churchill
	Italian 3.....	Second Year Course.....	Doyle
	Latin B.....	Cicero and Virgil.....	Smith
	Library Science 1A.....	General Introduction.....	Schmidt
	Pol. Sci. 1-3F.....	U. S. Govt., State Govts.....	Tillema
	Spanish 1D.....	First Year Spanish.....	
5.10	Commerce 30, 43.....	Marketing, Foreign Trade.....	Young
	Education 45.....	Same as Economics 45.....	Phillips
	English 10.....	English Composition.....	Bement
	English 33.....	English Drama since 1660.....	Croissant
	Ethnology 20.....	General Introduction.....	Michelson
	French 2C.....	First Year French.....	
	French 4A.....	Second Year French.....	Kramer
	French 4C.....	Second Year French.....	Cullom
	French 7B.....	Comp. and Conversation.....	Beneteau
	History 11, 12.....	Gen. European History.....	Ragatz
	History 13, 14.....	Ancient History.....	Kayser



## SCHEDULE OF CLASSES

75

<i>Course</i>	<i>Tuesday, Thursday, Saturday</i>	<i>Instructor</i>
Mathematics 15.....	Calculus, Anal. Geom.....	Berry
Mathematics 18B.....	Calculus .....	Erwin
Physics 1B.....	General Physics.....	Cheney
Physics 53, 54.....	X-rays, Atomic Structure.....	Hunt
Pol. Sci. 2, 4C.....	U. S. Govt., State Govts.....	Hill
Psychology 14.....	Psychology .....	Moss
Psychology 40, 41.....	Social Psychology.....	Middleton
Spanish 2C.....	First Year Spanish.....	Deibert
Spanish 4B.....	Second Year Spanish.....	Corliss
Spanish 4C.....	Second Year Spanish.....	Protzman
Spanish 7B.....	Conversation and Comp.....	Vazquez
Statistics 45.....	Elementary Statistics.....	Phillips
6.10 Chemistry 30.....	Industrial Chemistry .....	Brattain
Commerce 27, 28.....	History of Commerce.....	Young
English 8.....	Types of Literature.....	Croissant
French 2D.....	First Year French.....	Kramer
French 4B.....	Second Year French.....	Cullom
French 4D.....	Second Year French.....	
French 6.....	17th-19th Century Liter.....	Protzman
German 6.....	Second Year German.....	Gropp
Library Science 1B.....	General Introduction.....	Schmidt
Mathematics 4.....	Alg., Trig.....	Berry
Mathematics 6.....	Alg., Geom., Trig.....	Wallis
Mathematics 12C.....	Trig., Analytic Geom.....	Hodgkins, H. G.
Mathematics 54.....	Functions .....	Erwin
Mathematics 55.....	Differential Geometry.....	Erwin
Physics 52.....	Intro. to Math. Physics.....	Cheney
Pol. Sci. 2, 4D.....	U. S. Govt., State Govts.....	West
Pol. Sci. 53-54.....	Seminar .....	Hill
Spanish 2D.....	First Year Spanish.....	Corliss
Spanish 28.....	Span.-Am. Lit., Prose & Verse .....	Jones

## Tuesday and Thursday

9.10	Architecture 3A.....	Elements of Architecture.....	Albert
10.10	Latin 21.....	Quintilian, etc.....	Smith
11.10	Astronomy 1.....	Popular Astronomy.....	Erwin
	Chemistry 2A, 4A.....	General Chemistry .....	McNeil
	Commerce 33A.....	Commercial Law.....	Alden
	Public Speaking 1A.....	Prin. of Public Speaking.....	Farnham
1.10	Chemistry 3.....	Laboratory .....	McNeil
	Chemistry 4.....	Laboratory .....	McNeil
	Chemistry 16.....	Laboratory .....	Mackall
2.10	Chemistry 22.....	Laboratory .....	Hill

<i>Course</i>	<i>Tuesday and Thursday</i>	<i>Instructor</i>
Chemistry 23.....	Laboratory .....	Hill
Chemistry 24.....	Laboratory .....	Hill
Chemistry 26.....	Laboratory .....	Hill
Chemistry 36.....	Laboratory .....	Hill
Greek 20.....	Plato-Aristophanes .....	Smith
Home Economics 1.....	Laboratory .....	Denton
4.10 Art 23.....	Renaissance and Modern Art.....	Bibb
Classical Liter. 22.....	Gen. Survey of Latin Liter.....	Smith
Education 21 A & B.....	Prin. of Edu. and Teaching.....	Ruediger
Education 23.....	Sch. Hygiene and Sanitation.....	Rogers
Home Economics 29.....	Dietetics Laboratory.....	Denton
Prev. Medicine 36.....	Public Health.....	Rogers
Public Speaking 11.....	Advanced Course .....	Farnham
5.10 Chemistry 10.....	Theor. and Qual. Anal.....	Mackall
Chemistry 35.....	Physical Chemistry.....	McNeil
Chemistry 67.....	Adv. Organic Chemistry.....	Ambler
Education 50.....	Seminar .....	Ruediger
Home Economics 28.....	Nutrition .....	Denton
Psychology 36.....	Mental Hygiene.....	Richmond
Public Speaking 1B.....	Prin. of Public Speaking.....	Farnham
Sociology 20B.....	Experimental Sociology.....	Kern
Sociology 36.....	Case Work .....	McGuire
6.10 Architecture 20.....	History of Architecture.....	Bibb
Chemistry 2B, 4B.....	General Chemistry.....	McNeil
Chemistry 47.....	Stereo-Chemistry .....	Hill
Commerce 33B.....	Commercial Law.....	Alden
Economics 27, 26.....	Banking, Finance.....	Kern
Education 36.....	Americanization .....	Aiton
Education 52.....	Seminar .....	Powers
Sociology 38.....	Community Organization.....	Hyde
7.30 Statistics 46.....	Curve Fitting.....	Phillips
Architecture 1.....	Architectural Drawing.....	Albert
Architecture 4B.....	Shades and Shadows.....	Albert
Chemistry 3.....	Laboratory .....	McNeil
Chemistry 4.....	Laboratory .....	McNeil
Chemistry 16.....	Laboratory .....	Mackall
Chemistry 22.....	Laboratory .....	Hill
Chemistry 23.....	Laboratory .....	Hill
Chemistry 24.....	Laboratory .....	Hill
Chemistry 26.....	Laboratory .....	Hill
Chemistry 29.....	Laboratory .....	Mason
Chemistry 36.....	Laboratory .....	Hill



# SCHEDULE OF CLASSES

77

<i>Course</i>	<i>Monday and Wednesday</i>	<i>Instructor</i>
9.10 Botany 1A.....	General Botany.....	Bowman
10.10 Botany 1B.....	General Botany.....	Bowman
11.10 Botany 7, 8.....	Evolution, Heredity.....	Griggs
Chemistry 16A.....	Organic Chemistry.....	Mackall
1.10 Chemistry 10.....	Laboratory.....	Mackall
Chemistry 41.....	Laboratory.....	Mackall
Chemistry 46.....	Laboratory.....	Mackall
2.10 Botany 1C.....	General Botany.....	Griggs
3.10 Art 22.....	Ancient and Med. Art.....	Bibb
Botany 1D.....	General Botany.....	Griggs
5.10 Chemistry 45.....	Advanced Organic Chemistry.....	Mackall
Chemistry 66.....	Adv. Inorganic Chemistry.....	Gilchrist
Ethnology 51.....	North American.....	Michelson
6.10 Botany 1E.....	General Botany.....	Bowman
Chemistry 16B.....	Organic Chemistry.....	Mackall
7.30 Architecture 3B.....	Elements of Architecture.....	Albert
Chemistry 10.....	Laboratory.....	Mackall
Chemistry 41.....	Laboratory.....	Mackall
Chemistry 46.....	Laboratory.....	Mackall
<b>Monday and Friday</b>		
9.10 Architecture 1.....	Architectural Drawing.....	Albert
Economics 43, 44.....	Trusts, Labor Problems.....	Kern
4.10 Geology 12.....	Engineering Geology.....	Henderson
5.10 Geology 1A.....	Mineralogy.....	Bassler
Geology 20.....	Economic Geology.....	Bassler
Geography 24.....	Mediterranean Lands.....	Resser
Zoology 3.....	Lecture.....	Bartsch
Zoology 24, 25.....	Gen. Entomology Laboratory.....	Knight
6.10 Geology 2.....	General Geology.....	Bassler
Mathematics 31, 32.....	Special Topics, Dif. Equations.....	Berry
7.30 Architecture 2B.....	Elementary Antique.....	Wiesz
Architecture 3B.....	Elements.....	Albert
Architecture 6B.....	Advanced Antique.....	Wiesz
<b>Wednesday and Friday</b>		
10.10 Home Economics 3, 4.....	Laboratory.....	
1.10 Chemistry 29.....	Laboratory.....	Mason
1.45 Architecture 4A.....	Shades and Shadows.....	Albert
2.10 Home Economics 13.....	Clothing Selec. and Const.....	
5.10 Architecture 28.....	Hist. of Sculp. and Painting.....	Bibb
Chemistry 1.....	Elem. Gen. Chemistry.....	Mason
Chemistry 38.....	Biochemistry.....	Roe
Home Economics 2.....	Laboratory.....	

## DEPARTMENT OF ARTS AND SCIENCES

<i>Course</i>	<i>Wednesday and Friday</i>	<i>Instructor</i>
Home Econ. 21, 22	Household Manag't; Teaching	Denton
6.10 Architecture 8	History of Architecture	Bibb
6.30 Chemistry 38	Laboratory	Roe

## Thursday and Saturday

10.10 Physics 10A	Physics Problems	Cheney
5.10 Physics 10B	Physics Problems	Cheney

## Monday and Thursday

1.45 Architecture 2A	Elementary Antique	Wiesz
Architecture 6A	Advanced Antique	Wiesz
5.10 Architecture 22	Mech. Equip. of Building	Harris

## Wednesday and Thursday

7.30 Architecture 30	Life Class	Baker
Architecture 34	Advanced Life Class	Baker

## Tuesday and Wednesday

1.45 Architecture 42A	Office Practice	Crandall
7.30 Architecture 42B	Office Practice	Crandall

## Monday

10.10 Home Economics 3, 4	Experimental Cookery	Denton
1.10 Chemistry 1	Laboratory	Mason
Chemistry 2	Laboratory	McNeil
2.10 Home Economics 1	Food Economics	Denton
3.10 Home Economics 13	Clothing Selec. and Const.	Denton
Botany 1	Laboratory	
Botany 4	Field Botany Laboratory	Griggs
5.10 Chemistry 20	Quantitative Analysis	Van Evera
Home Economics 2	Food Economics	Denton
6.10 Architecture 10	Principles of Composition	Crandall
Chemistry 29	Analytical Organic Chemistry	Mason
Zoology 2	Vertebrates	Bartsch
7.30 Chemistry 1	Laboratory	Mason
Chemistry 2	Laboratory	McNeil

## Tuesday

3.10 Botany 1	Laboratory	
Botany 28	Fungi	Bowman
5.10 Architecture 31	Historic Ornament	Bibb



# SCHEDULE OF CLASSES

79

<i>Course</i>	<i>Tuesday</i>	<i>Instructor</i>
Architecture 45.....	Professional Relations.....	Harris
Botany 23, 24.....	Plant Anatomy, Cytology.....	Bowman
6.10 Architecture 46.....	Arch. Humanities.....	Crandall
7.30 Psychology 50.....	Seminar .....	Moss

## Wednesday

9.10 Architecture 12A.....	Pencil & Pen & Ink Rend.....	Wiesz
Architecture 15A.....	Adv. Pencil & Pen & Ink Rend..	Wiesz
3.10 Botany 1.....	Laboratory .....	
5.10 Geography 7.....	Physical Geography.....	Resser
Zoology 1.....	Lecture .....	Bartsch
6.10 Geography 5.....	North America.....	Resser
Zoology 24, 25.....	General Entomology.....	Knight
7.00 Philosophy 51.....	Seminar .....	Richardson
7.30 Architecture 12B.....	Pencil & Pen & Ink Rend.....	Wiesz
Architecture 15A.....	Adv. Pencil & Pen & Ink Rend..	Wiesz
Architecture 33B.....	Water Color.....	Baker
History 47.....	Pre-Seminar .....	Ragatz

## Thursday

1.45 Architecture 33A.....	Water Color.....	Baker
3.10 Botany 1.....	Laboratory .....	
Latin 22.....	Advanced Latin Composition.....	Smith
7.30 Psychology 54.....	Test Construction.....	Moss

## Friday

10.10 Physics.....	General Physics.....	Cheney
3.10 Botany 1.....	Laboratory .....	
5.10 Chemistry 49.....	History of Chemistry.....	Mackall
Zoology 3.....	Lecture .....	
6.10 Botany 1.....	Laboratory .....	
Zoology 23.....	Ornithology .....	Bartsch

## Saturday

9.10 Education 27, 28.....	Administration, Supervision.....	Powers
Education 31 A & B.....	Exceptional Child, Tests, etc.....	LaSalle
11.10 Education 42, 43.....	Same as Psychology 42, 43.....	Middleton
Psychology 42, 43.....	Applied and Edu. Psychol.....	Middleton
5.10 Physics 57.....	Statistical Mech. & Kin. Theory.....	Van Orstrand
6.10 Physics 1B.....	General Physics.....	Cheney

## COURSES OF INSTRUCTION PROVIDED BY THE DEPARTMENT OF ARTS AND SCIENCES

The courses of instruction are divided into three sections. First section courses are numbered 1-19, second section courses, 20-49, and third section courses, 50 up. Year-courses that have their credits stated by the semester may be entered in February by students with the proper preparation. Year-courses that have their credits stated by the year may usually not be entered in February.

First section courses are planned for lower classmen and may not be taken for credit by graduate students. Second section courses are planned for upper classmen. They may be credited toward higher degrees only after registration in them has been approved by the Dean of the School of Graduate Studies and after the completion of additional work in them has been certified by the instructor in charge. Third section courses are planned for graduate students. They are open to upper classmen only with the approval of the instructor and of the Dean of the college concerned.

The units of credit in semester hours are stated under each course. A semester hour of credit consists of the completion of one hour of class work per week for one semester.

Courses that are applied for by less than three students may be withdrawn.

## APPLIED MATHEMATICS

### *Second Section. For Undergraduates and Graduates.*

20. *Analytical and Applied Mechanics.*—(1) Statics: including composition, resolution and equilibrium of forces; center of gravity; moment of inertia. (2) Kinematics and kinetics: including rectilinear, curvilinear and rotary motion; dynamics of machinery; work and energy; friction; impact. First semester. Four semester-hour credits. Prerequisites: Math. 18 or 19; Physics 1 or 3.

21. *Hydraulics.*—The theoretical principles of hydraulics: including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Four semester-hour credits. Prerequisites: Physics 1 and Math. 18 or 19. Assistant Professor RANDOLPH.

22. *Mechanics of Materials and Theory of Elasticity.*—Elastic and ultimate strength and deformation; simple, cantilever and continuous beams; shear, riveted joints, torsion, columns, resilience, combined stress, curved beams and hooks; theories of elastic limit and failure. Four semester-hour credits. Prerequisite: Ap. Math. 20.

23. *Statics and Mechanics of Materials.*—Intended primarily for Architects. Graphic statics, composition, resolution and equilibrium



of forces; center of gravity; moment of inertia; beams and columns; design of trusses. Two lectures and one drawing period a week. Six semester-hour credits. Prerequisite: Math. 15; Physics 3.

### ARCHITECTURE

1. *Architectural Drawing*.—Correct use of drafting instruments; mechanical and freehand lettering, and mechanical drawing with pen and pencil of architectural subjects. Practical problems in stone jointing, wall sections, stone finishes and finishing tools. Theory and application of mechanical perspective. Section A—Monday and Friday, 9:10 a. m. to 12:10 p. m.; Section B—Tuesday and Thursday, 7:30 to 10:30 p. m. Two semester-hour credits. First semester. Mr. ALBERT.

2. *Elementary Antique*.—A beginner's course in freehand drawing. Individual instruction is given from the antique in the elements of charcoal drawing, sketching and anatomy. No preparatory qualification is required. Students showing the required proficiency at the end of the first semester are eligible to enroll in Architecture 6. Section A—Monday and Thursday, 1:45 to 4:45 p. m.; Section B—Monday and Friday, 7:30 to 10:30 p. m. Four semester-hour credits. Mr. WIESZ.

3. *Elements of Architecture*.—A drafting room course for the study of the architectural elements including: the treatment of wall surfaces, mouldings, balustrades, arcades, doors, windows and the five classical orders with their proper intercolumniation and superposition. One, three, five and seven motive facades drawn to small scale in block form. The running of water color washes and practice in rendering simple architectural subjects. Section A—Tuesday and Thursday, 9:10 a. m. to 12:10 p. m.; Section B—Monday and Wednesday, 7:30 to 10:30 p. m. Two semester-hour credits. First semester. Mr. ALBERT.

4. *Shades and Shadows*.—Principles of descriptive geometry methods of casting the conventional shades and shadows used in architectural design. Prerequisite: Mechanical Drawing 8. Section A—Wednesday and Friday, 1:45 to 4:45 p. m.; Section B—Tuesday and Thursday, 7:30 to 10:30 p. m. Two semester-hour credits. Second semester. Mr. ALBERT.

5. *Elementary Design*.—A drafting room course given by means of individual instruction and personal criticism at the drafting board. Rendered problems involving the treatment and use of the classical orders and the simpler architectural forms are prepared by the student. These problems are developed from the preliminary sketch or esquisse prepared without assistance by the student in the first nine hours after the program has been issued. This course serves to ac-

quaint the student with the procedure in studying the architectural problem, with the general application of the principles of composition and with the methods of rendering architectural projects. Major problems or analytiques of from two to six weeks' duration and minor problems or esquisse-esquisses of nine hours' duration. Prerequisite: Architecture 3 and 4, or may be taken concurrently with Architecture 4. Four three-hour periods a week. Four semester-hour credits. Second semester. Mr. ALBERT.

6. *Advanced Antique*.—Preparatory for entrance into the life class. Instruction is given from the antique in advanced problems of light and shade, sketching and anatomy. A successful completion of the course in Architecture 2 or the attainment of the same proficiency in drawing at any other school is the requirement to enter this class. Any student showing the required proficiency at the end of the first semester is eligible to enroll in Architecture 30. Prerequisite: Architecture 2. Section A—Monday and Thursday, 1:45 to 4:45 p. m.; Section B—Monday and Friday, 7:30 to 10:30 p. m. Four semester-hour credits. Mr. WIESZ.

7. *Architectural Design*.—A drafting room course for the study and presentation of the plans, elevations and sections of small buildings as developed from the esquisse prepared by the student in the first nine hours after the stated program has been issued. Personal criticisms are given by the design staff and special attention is given to the correlation of the plans, elevations and sections of buildings as well as the relation of the various elements in each to one another. The choice and application of architectural decoration is stressed and the principles of planning are applied with a study of the poche, mosaics, entourage and other embellishments used in academic presentations. Major problems or projects of from two to six weeks' duration and minor problems or esquisse-esquisses of nine hours' duration. Prerequisite: Architecture 5. Four three-hour periods a week. Four semester-hour credits. First semester. Mr. ALBERT.

8. *History of Architecture*.—The development of the art in ancient Egypt, in Greece and Rome and through the Mediæval period. Wednesday and Friday at 6:10 p. m. Four semester-hour credits. Professor BIBB.

9. *Architectural Design*.—Continuation of Architecture 7. Prerequisite: Architecture 7. Four three-hour periods a week. Four semester-hour credits. Second semester. Mr. ALBERT.

10. *Principles of Composition*.—A study of composition for architectural design including a discussion of taste, beauty, appreciation, refinement; expression by mass, proportion and line. The typical motives of buildings including the treatment of walls, lintels, arches, columns, piers, vaults, and fenestration with exercises in actual com-



position. A study of plan composition including the different types of plans, plan presentation and indication, poche, mosaics, entourage and the analysis of the program with exercises in plan composition. Prerequisite: Architecture 12 or must be taken concurrently with Architecture 12. Monday at 6:10 p. m. Two semester-hour credits. Professor CRANDALL.

12. *Pencil and Pen and Ink Rendering*.—Sketching and rendering in pencil and pen and ink from selected photographs of noted architectural subjects and landscapes. The purpose of this course is to develop the student's ability to convey his ideas in these mediums. Prerequisite: Architecture 2 or must be taken concurrently with Architecture 2. Section A—Wednesday, 9:10 a. m. to 12:10 p. m.; Section B—Wednesday, 7:30 to 10:30 p. m. Two semester-hour credits. Mr. WIESZ.

15. *Advanced Pencil and Pen and Ink Rendering*.—A continuation of Architecture 12. Prerequisite: Architecture 12. Section A—Wednesday, 9:10 a. m. to 12:10 p. m.; Section B—Wednesday, 7:30 to 10:30 p. m. Two semester-hour credits. Mr. WIESZ.

*Second Section. For Undergraduates and Graduates.*

20. *History of Architecture*.—A study of the Architecture of the Renaissance in its relation to Ancient and Modern Architecture. Prerequisite: Architecture 8. Tuesday and Thursday at 6:10 p. m. Four semester-hour credits. Professor BIBB.

21. *Building Construction*.—Methods of construction: wood frame, steel frame, concrete frame and masonry. Building Materials: A study of their properties and their use in Architectural construction. Specifications: Construction considered with reference to the practical requirements of the various trades, and with reference to carrying out the full intent of the designer. Details of construction: A study of three-quarter inch scale and full size drawings of actual buildings showing the practical application of such drawings. Superintendence: Occasional visits to buildings actually under construction. Building codes and zoning regulations: A study of the use of such codes and regulations and their effect upon building construction, safety requirements and requirements for light and ventilation. Prerequisite: Architecture 5 or equivalent. Freshmen will not be admitted to this course. Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Mr. FOURCHY.

22. *Mechanical Equipment of Buildings*.—Lectures on the fundamental problems involved in the mechanical equipment of buildings. Water: Contamination of sources, storage and distributing systems. Sanitation: City and suburban disposal of sewage, sewage farms, septic tank, filter bed, and sub-soil treatment of sewage. Plumbing: Installation of modern plumbing systems. Heating: Determination of

heat losses; steam, hot water, furnace and plenum systems. Ventilation: Quantity of air required and apparatus used for ventilating schools, churches, auditoriums. Elevators, lifts and dumbwaiters: Electrical, hydraulic and hand-power installations. Refrigerating systems: Character of apparatus and layout of piping; refrigerating coils, and drainage of refrigerating boxes. Inspection trips covering typical installations of building equipment. Prerequisite: Architecture 21 (or may be taken concurrently with Architecture 21). Monday and Thursday at 5:10 p. m. Four semester-hour credits. Professor HARRIS.

25. *Architectural Design*.—A drafting room course in which architectural problems are solved in a nine-hour esquisse and the final drawings developed in strict conformity with it. Rendered problems in the design of plans, elevations and sections of buildings of a more formal and extended nature are prepared with the personal criticism of the design staff. Informal discussions and conferences with the purpose of analyzing and studying existing examples similar to the current problem are held. The presentation of an archaeology problem may be required of the student in this course. Major problems of from two to six weeks' duration and minor problems of from nine to twelve hours' duration. Prerequisite: Architecture 9. Six three-hour periods a week. Six semester-hour credits. \*First semester. Professor CRANDALL.

26. *Architectural Design*.—A continuation of Architecture 25 and similar in nature but extended to include the study of simple group planning. Major problems of from two to five weeks' duration and minor problems of from nine to twelve hours' duration. Prerequisite: Architecture 25. Six three-hour periods a week. Six semester-hour credits. \*Second semester. Professor CRANDALL.

27. *Architectural Design*.—An intensive and progressive study of the design and rendered presentation of the plans, elevations and sections of the large and important types of public and semi-public buildings and groups of buildings. The treatment of extensive entourage in plan, elevation and section is given especial study. Major problems of from two to five weeks' duration and minor problems of from nine to twelve hours' duration. Prerequisite: Architecture 26. Eight three-hour periods. Eight semester-hour credits. \*First semester. Professor CRANDALL.

28. *History of Sculpture and Painting*.—An advanced course offering a comparative study of the development of art as the expression of civilization; an outline of the lives of great artists and a critical analysis of their achievements. Wednesday and Friday at 5:10 p. m. Four semester-hour credits. Professor BIBB.

30. *Life Class*.—Drawing from the nude model and anatomical study. Wednesday and Thursday, 7:30 to 10:30 p. m. Prerequisite:



Architecture 6. Four semester-hour credits. Assistant Professor BAKER.

31. *Historic Ornament*.—Lectures on the periods and styles of Ancient, Medieval, Oriental, Renaissance and Modern ornament with drawings in line and water color from examples selected as typical. This course serves to acquaint the student more intimately with architectural ornament. Prerequisite: Architecture 20. Tuesday at 5:10 p. m. Two semester-hour credits. Professor BIBB.

33. *Water Color*.—Drawing and painting in water color from still life and outdoor sketching. Prerequisite: Architecture 6. Section A—Thursday, 1:45 to 4:45 p. m.; Section B—Wednesday, 7:30 to 10:30 p. m. Two semester-hour credits. Assistant Professor BAKER.

34. *Advanced Life Class*.—Drawing from the nude in preparation for painting, anatomical study and composition for mural decoration. Wednesday and Thursday, 7:30 to 10:30 p. m. Prerequisite: Architecture 30. Four semester-hour credits. Assistant Professor BAKER.

42. *Office Practice*.—Exercises in the drafting room to illustrate the principles which govern the preparation of working drawings, details, specifications, and the making of architectural models. Plans of executed work will be examined and discussed. Prerequisite: Architecture 21. Section A—Tuesday and Wednesday, 1:45 to 4:45 p. m.; Section B—Tuesday and Wednesday, 7:30 to 10:30 p. m. Four semester-hour credits. Professor CRANDALL.

45. *Professional Relations*.—Lectures on the ethics of the profession of Architecture. Relations of the architect to the owner and contractor. Contracts, legal documents. Preliminary estimates for buildings, legal responsibility of the architect for estimates. Land values and their relation to cost of proposed building. Promotion and investment operation and revenue. Regular lectures supplemented by talks by experts. Prerequisite: Economics 1. Tuesday at 5:10 p. m. Two semester-hour credits. Professor HARRIS.

46. *Architectural Humanities*.—Lectures by speakers of distinction in different fields not strictly architectural, but so related to architecture as to be of value to students about to assume their professional responsibilities. Articles in current architectural periodicals and special subjects will be assigned for investigation and each student will be required to report to the class and lead the discussion on his assigned work as a part of this course. Prerequisite: Architecture 25. Tuesday at 6:10 p. m. Two semester-hour credits. Professor CRANDALL.

47. *Architectural Design*.—A continuation of Architecture 27 for the first half of the semester. For the last half of this course, the student may choose any type of large building or group of buildings he desires and after receiving the consent of the design staff, write his own pro-

gram and prepare complete presented drawings in the same manner as would be done in the modern architect's office. Materials must be investigated and chosen for use throughout the building, all mechanical equipment determined upon and proper spaces left for installation, the type of construction determined, etc. The student will then be given a limited time to explain his projet to the jury and be ready to defend and justify every phase of the design. Prerequisite: Architecture 27 and all pertinent work through the Junior year. Eight semester-hour credits. Eight three-hour periods a week. \*Second semester. Professor CRANDALL.

*Third Section. Primarily for Graduates.*

50. *Graduate Design*.—Hours<sup>a</sup> and credits to be arranged. Professor CRANDALL.

51. *Advanced Construction*.—Hours and credits to be arranged. Mr. FOURCHY.

52. *Seminar in History of Architecture*.—Hours and credits to be arranged. Professor BIBB.

53. *Advanced Painting and Composition*.—Hours and credits to be arranged. Assistant Professor BAKER.

## ART AND ARCHAEOLOGY

### ART

*Second Section. For Graduates and Undergraduates.*

22. *Ancient and Mediaeval Art*.—Lectures, assigned readings, written reports. Monday and Wednesday at 3:10 p. m. Four semester-hour credits. Professor BIBB.

23. *Renaissance and Modern Art*.—Lectures, assigned readings and written reports. Tuesday and Thursday at 4:10 p. m. Four semester-hour credits. Professor BIBB.

25. *Oriental Art*.—A careful study of art motives with attention to literary impulses and history of China, Japan, India and Persia. An investigation of monuments and temples remaining today, with examples of the graphic and plastic arts of those countries. Illustrated lectures, gallery visits, and assigned readings, with special attention to some problem of research. Collections of the Freer Gallery and individual connoisseurs will be employed, with occasional visits to

<sup>a</sup> For part-time students, the work in Architecture 25, 26, 27, and 47 will be divided up between the first and second semesters and will therefore extend throughout the year. Credit will be given only for the entire course; therefore part-time students must register the first semester. Many of the problems issued by the Beaux Arts Institute of Design in New York City will be included in the work of the design courses and although these problems may be sent to the New York judgments, academic credit will be determined by the University judgment.



museums of other cities. Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Dr. BRIGHAM.

Note:—See Architecture 8, 20 and 28.

### ARCHAEOLOGY

#### *Second Section. For Graduates and Undergraduates.*

*Archaeology.*—An introductory study of European prehistory will be followed by a general course in Greek and Roman Archaeology. A part of the second semester will be given to a selected field in American Archaeology. Lectures illustrated with numerous lantern slides, photographs and collections. Assigned readings, written reports. Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Mrs. MITCHELL CARROLL.

(Use is made of the illustrative material in the National Museum, the Library of Congress and the Corcoran Gallery of Art. Students are invited to the open meetings of the Art and Archaeology League, and the Washington Society of the Archaeological Institute of America.)

### ASTRONOMY

#### *First Section. Primarily for Undergraduates.*

1. *Popular Astronomy.*—A course in elementary descriptive astronomy, designed to give facts of general interest without the use of higher mathematics. Recitations, lectures and papers on special topics assigned to each student. Tuesday and Thursday, 11:10 a. m. Four semester-hour credits. Professor ERWIN.

### ASTROPHYSICS

#### *Third Section. Primarily for Graduates.*

54. A lecture course on the astrophysical instruments employed in modern research. Six semester-hour credits. Mr. FOWLE.

55. Some applications of Astrophysics, Geophysics, Chemical Physics and Colloidal Physics to Meteorology. Six semester-hour credits. Mr. FOWLE.

56. Some interrelations between Astrophysics, Geophysics, Atomic Physics and Colloidal Physics. Six semester-hour credits. Mr. FOWLE.

### BACTERIOLOGY AND CLINICAL MICROSCOPY

#### *Second Section. For Undergraduates and Graduates.*

20. *Bacteriology.*—General bacteriology; bacteriological technic; preparation of culture media; methods of sterilization and disinfection; routine study of about ten non-pathogenic bacteria; cultural; microscopical and serological study of about forty pathogenic organisms. Students are also taught the preparation of vaccines, agglutinating, hemolytic and other immune sera, commonly employed in

diagnosis, including the Wassermann Reaction. Moulds, yeast, spoilage of food and contamination of water are also considered, together with methods for qualitative and quantitative estimation. This course consists of forty-eight lectures and quizzes, and ninety-six hours in the laboratory. Special tuition fee, \$60.00. Dr. HUNTER.

22. *Clinical Microscopy and Parasitology*.—A course covering the technic for counting red and white blood cells, various methods of hemoglobin estimation, differential counting of white blood cells; study and recognition of malarial parasites and other blood parasites, and a consideration of the latest procedures in Hematology; microscopic examination of sputum, spinal fluid, exudates, etc. Microscopic study of the sediments of normal and pathologic urines, stomach contents, feces, including a systematic study of animal parasites and life histories, which are of interest from a medical standpoint, beginning with the protozoa and passing through the helminths and arthropods. The venomous animals and their venoms are also studied and the problems of immunity in this group are discussed. The significance and value of these findings as applied to pathology and diagnosis are considered. Hours, seventy-two; didactic, twenty-four; laboratory, forty-eight. Special tuition fee, \$36.00. Dr. HUNTER.

23. *Pathology and Pathologic Technic*.—This course includes a resume of normal Histology and Embryology so correlated as to show the structural units of the human and animal body morphologically and developmentally and their relationship to each other in the construction of tissues and organs to constitute a proper basis for the study of Pathology. This is followed by a study of General Pathology, covering inflammation, repair, degenerations, the effect of plant and animal parasites on the body, the effects of physical and chemical agents and the formation of new growths. Special pathology of the organs and of the specific diseases is also considered. The laboratory work consists of a study of the various methods of preservation, fixation, cutting, staining, mounting and preparation of pathologic tissues, including the paraffin, celloidin and freezing procedures, and microscopic examinations. The microscopic study is supplemented by material from the operating room, post-mortem and museum specimens, thus affording a knowledge of both gross and microscopic pathology. Hours, seventy-two; didactic, twenty-four; laboratory, forty-eight. Special tuition fee, \$36.00. Dr. HUNTER.

## BOTANY

### *First Section. For Undergraduates.*

A student intending to major in Botany is advised to take Course 4 along with Course 1 the first year, follow with 20 or 23 and 24 the second year and with 21 the junior year. If he looks forward to a



professional career in Botany, he should take work in Botany during one or more of his summer vacations, acquire a reading knowledge of French and German and choose among his electives, Chemistry, Geology, Physics and Zoology.

1. *General Botany*.—This course aims to present in orderly fashion such a knowledge of the vegetable kingdom as everyone needs to understand plants, their mode of life and their bearing on human affairs. It includes a study of the structure and functions of the flowering plant as a working mechanism, followed by a rapid survey of the principal groups of plants, with practice in determining the common native flowers. Text: Holman & Robbins' Textbook of General Botany. The year. Six semester-hour credits. Section A—Monday and Wednesday, 9:10 a. m., Mr. BOWMAN; Section B—Monday and Wednesday, 10:10 a. m., Mr. BOWMAN; Section C—Monday and Wednesday, 2:10 p. m., Professor GRIGGS; Section D—Monday and Wednesday, 3:10 p. m., Professor GRIGGS; Section E—Monday, Wednesday, 6:10 p. m., Mr. BOWMAN. Laboratory: Monday, 3:10-5:00 p. m.; Tuesday, 3:10-5:00 p. m.; Wednesday, 3:10-5:00 p. m.; Thursday, 3:10-5:00 p. m.; Friday, 3:10-5:00 p. m., 6:10-8:00 p. m.

4. *Field Botany*.—First-hand study of the local flora, designed to familiarize the student with the native plants and with methods of field study, including the identification of plants. An excursion Saturday afternoon is followed by a laboratory period Monday, 3:10-5:00 p. m. Second semester. Two semester-hour credits. Professor GRIGGS and Mr. BOWMAN.

7. *Evolution*.—A semi-popular account of the evidences of organic evolution. No prerequisite. Monday and Wednesday at 11:10 a. m. Two semester-hour credits. Professor GRIGGS.

8. *Heredity*.—A semi-popular account of the facts of heredity. The first part of the course deals with the elementary facts of reproduction and the mechanism of heredity, and Mendel's Law. This is followed by heredity in man with its application to eugenics and problems of population. It is desirable when practicable that this course be preceded by Course 7, in the first semester, but there is no prerequisite. Monday and Wednesday at 11:10 a. m. Two semester-hour credits. Professor GRIGGS.

*Second Section. For Graduates and Advanced Undergraduates.*

20. *Flowering Plants*.—A survey of selected groups of angiosperms chosen to give the student an understanding of the evolution and natural relationships of the class together with practice in identifying unknown plants. Prerequisite: Botany 1. Conferences on Friday at 4:10 or at 6:10; four hours' laboratory per week on Monday, Wednesday

and Friday afternoons. Hours to be arranged. The year. Six semester-hour credits. Professor GRIGGS.

21. *Evolution*.—Assigned readings, lectures and discussion of evolution, genetics, eugenics and other fundamental problems of biology. Text: Newman: Readings in Evolution, Genetics and Eugenics. Prerequisite: One year's work in College Botany, Ethnology, Geology or Zoology. Monday, Wednesday and Friday, 5:10 p. m. The year. Six semester-hour credits. Professor GRIGGS.

23. *Plant Anatomy*.—This course will include both a microscopical study of the structure of flowering plants and the technic of preparing material for study. Each student will make a set of slides for himself. Prerequisite: Botany 1. Tuesday, 5:10-6:00 p. m. Four hours' laboratory work. Time to be arranged. First semester. Three semester-hour credits. Mr. BOWMAN.

24. *Cytology*.—Cell contents, mitosis, fertilization and the reduction division will be studied. Each student will prepare and stain his own material in class. Prerequisite: Botany 1. Same hours as for Botany 23. Three semester-hour credits. Second semester. Mr. BOWMAN.

26. *Mosses*.—Advanced field course. Prerequisite: Botany 4 or equivalent. Excursion on Saturday afternoon, laboratory on Tuesday from 3 to 5 p. m. Two semester-hour credits. Mr. BOWMAN. (Alternating with Course 23. Not given in 1927-28.)

28. *Fungi*.—Alternating with Course 26. Given in 1927-28. Prerequisite: Botany 4. Excursion on Saturday afternoon. Laboratory on Tuesday from 3 to 5 p. m. Two semester-hour credits. Mr. BOWMAN.

30. *Field Problems*.—Competent students may take up some special problem. Hours and credits to be arranged. Professor GRIGGS.

#### *Third Section. Primarily for Graduates.*

50. *Research*.—Open to qualified workers in special fields. Hours and credits to be arranged. Professor GRIGGS and Mr. BOWMAN.

### CHEMISTRY

A major in Chemistry for the degree of Bachelor of Arts consists of the following courses: Chemistry 3 or 4, 10, 16 and 20. The student should acquire a reading knowledge of French and German, and elect Mathematics and Physics.

Credit is not given for one semester's work in courses which continue throughout the year.

#### *First Section. Primarily for Undergraduates.*

1. *Elementary General Chemistry*.—A non-professional course for students who do not intend to continue the study of Chemistry. Prerequisite: none. Lectures: Wednesday and Friday at 5:10 p. m.



Laboratory: Monday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Six semester-hour credits. Dr. MASON, Mr. MAY and Assistants.

2. *General Chemistry*.—A course for students who do not plan to continue the study of Chemistry. Prerequisite: High School Chemistry. Lectures: Section A—Tuesday and Thursday at 11:10 a. m.; Section B—Tuesday and Thursday at 6:10 p. m. Laboratory: Monday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Six semester-hour credits. Professor McNEIL, Dr. MASON and Assistants.

3. *General Chemistry*.—A professional course for engineering students and those majoring in Chemistry. Prerequisite: none. Lectures: Section A—Monday, Wednesday and Friday at 11:10 a. m.; Section B—Monday, Wednesday and Friday at 6:10 p. m. Laboratory: Tuesday and Thursday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Ten semester-hour credits. Professor McNEIL, Dr. MASON, Mr. MAY and Assistants.

4. *General Chemistry*.—A professional course for engineering and premedical students and those majoring in Chemistry. Prerequisite: High School Chemistry. Lectures: Section A—Tuesday and Thursday at 11:10 a. m.; Section B—Tuesday and Thursday at 6:10 p. m. Laboratory: Tuesday and Thursday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Eight semester-hour credits. Professor McNEIL, Dr. MASON and Assistants.

10. *Theoretical Chemistry and Qualitative Analysis*.—The lectures consist of an elementary presentation of Physical Chemistry, and the foundations of Analytical Chemistry. The laboratory work of the first semester is devoted to physico-chemical measurements, and that of the second semester to Qualitative Analysis. Prerequisite: Chemistry 3 or 4. Lectures: Tuesday and Thursday at 5:10 p. m. Laboratory: Monday and Wednesday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Eight semester-hour credits. Professor MACKALL, Mr. VAN EVERA and Assistant.

16. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures: Section A—Monday and Wednesday at 11:10 a. m.; Section B—Monday and Wednesday at 6:10 p. m. Laboratory: Tuesday and Thursday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Eight semester-hour credits. Professor MACKALL, Mr. VAN EVERA, Mr. HANN and Assistants.

*Second Section. For Undergraduates and Graduates.*

20. *Quantitative Analysis*.—The principles of Quantitative Analysis, with applications to gravimetric, volumetric, electrolytic and colorimetric determinations. Prerequisite: Chemistry 3 or 4, and 10. Lecture: Monday at 5:10 p. m. Laboratory: Monday, Wednesday and

Friday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Eight semester-hour credits. Mr. VAN EVERA, Dr. BERLINER and Assistants.

22. *Microchemical Analysis*.—A course covering the qualitative analysis of minute quantities of unknown substances, special attention being given to crystal form as seen under the microscope. Prerequisite: Chemistry 3 or 4. Laboratory: Tuesday and Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m., either semester; or Tuesday or Thursday 2:10-5:00 p. m., or 7:30-10:20 p. m., throughout the year. Two semester-hour credits. Professor HILL.

23. *Chemical Microscopy*.—A course on the use of the microscope and microscopical methods in chemical work. Prerequisite: Chemistry 3 or 4. Laboratory: Tuesday and Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m. Four semester-hour credits. Professor HILL.

24. *Applied Microscopy*.—The use of the microscope and its accessories in connection with (a) technical products, (b) vegetable foods and drugs, (c) metallography, (d) petrographic methods, (e) special technique for premedical students, or (f) crystallography, as the student may elect. Prerequisite: Chemistry 3 or 4. Laboratory: Tuesday and Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m., either semester; or Tuesday or Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m., throughout the year; or Tuesday and Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m., throughout the year. Two or four semester-hour credits. Professor HILL.

26. *Colorimetric Analysis*.—A course in Quantitative Analysis by colorimetric methods using the Bock-Benedict colorimeter. Prerequisite: Chemistry 3 or 4. 10 and 20. Tuesday or Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m., either semester. One semester-hour credit. Professor HILL.

29. *Analytical Organic Chemistry*.—The detection of organic compounds based on solubilities and class reactions. The determination of carbon, hydrogen, nitrogen, phosphorus, sulfur and the halogens in organic substances. Prerequisite: Chemistry 3 or 4, 16 and 20. Lecture: Monday at 6:10 p. m. Laboratory: Wednesday and Friday, 1:10-4:00 p. m., or Tuesday and Thursday, 7:30-10:20 p. m. Six semester-hour credits. Dr. MASON.

30. *Industrial Chemistry*.—A course dealing with the manufacture of chemicals, and with the application of Chemistry to the arts and industries. Prerequisite: Chemistry 3 or 4; and 16, which, however, may be taken concurrently. Lectures: Tuesday, Thursday and Saturday at 6:10 p. m. Six semester-hour credits. Assistant Professor BRATTAIN.

31. *Chemical Engineering*.—A course on the methods employed in the industrial application of chemical and engineering principles, including the materials used in the construction of apparatus needed in



large scale chemical work, the principal types of apparatus and machines, practice in the solution of problems connected with the commercial chemical processes, and design of chemical equipment. Prerequisite: Chemistry 3 or 4, and 16. Lectures: Monday, Wednesday and Friday at 6:10 p. m. Six semester-hour credits. Assistant Professor BRATTAIN.

35. *Physical Chemistry*.—A course treating the modern theories of Physical Chemistry. Special attention is given to the ionic theory, electro-chemistry, colloids, mass action and the phase rule. Prerequisite: Chemistry 3 or 4, and 10. Lectures: Tuesday and Thursday at 5:10 p. m. Four semester-hour credits. Professor McNEIL.

36. *Physical Chemistry*.—A course of physico-chemical measurements and technique. Prerequisite: Chemistry 3 or 4, 10; and 35, which should be taken concurrently. Laboratory: Tuesday and Thursday, 2:10-5:00 p. m., or 7:30-10:20 p. m. Four semester-hour credits. Professor HILL.

38. *Biochemistry*.—The first six weeks of the course are devoted to a study of hydrogen ion concentration, indicators, methods of Quantitative Analysis, dialysis, osmosis, colloids and enzymes. This preliminary training is followed by a course in Physiological Chemistry consisting of a study of the chemical structure and the reactions of the carbohydrates, fats and proteins; the composition of the tissues of the body, and of milk, urine and the secretions; digestion, absorption and assimilation of foods; metabolism; basic principles of nutrition. Lectures: Wednesday and Friday at 5:10 p. m. Laboratory: Wednesday and Friday, 6:30-9:20 p. m. Eight semester-hour credits. Professor ROE.

41. *Inorganic Chemistry*.—Advanced synthetic inorganic preparations. Prerequisite: Chemistry 3 or 4, and 10. Laboratory: Monday and Wednesday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Four semester-hour credits. Professor MACKALL.

45. *Advanced Organic Chemistry*.—A study of the more important reactions and chapters of Organic Chemistry. Prerequisite: Chemistry 3 or 4, and 16. Lectures: Monday and Wednesday at 5:10 p. m. Four semester-hour credits. Professor MACKALL.

46. *Advanced Organic Chemistry*.—Advanced synthetic organic preparations. Prerequisite: Chemistry 3 or 4, and 16. Laboratory: Monday and Wednesday, 1:10-4:00 p. m., or 7:30-10:20 p. m. Four semester-hour credits. Professor MACKALL.

47. *Stereochemistry*.—A course dealing with the arrangement of atoms in space from the theoretical standpoint. The student is taught to form models by which to illustrate spacial relations. Prerequisite:

Chemistry 3 or 4, and 16. Lectures: Tuesday and Thursday at 6:10 p. m. Four semester-hour credits. Professor HILL.

49. *History of Chemistry*.—The historical development of Chemistry with special reference to the work and lives of those who have contributed to its advancement. Prerequisite: Chemistry 3 or 4, 10 and 16. Lecture: Friday at 5:10 p. m. Two semester-hour credits. Professor MACKALL.

*Third Section. Primarily for Graduates.*

60. *Thermodynamics*.—An advanced course treating first, the general principles of Thermodynamics, and second, their applications to chemical investigations. Particular attention is given to those parts of the subject which are indispensable to students of Physical Chemistry. Prerequisite: Physical Chemistry, Physics and Calculus. Lectures: Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Mr. ADAMS. (Not given in 1927-28.)

63. *Catalysis*.—A course on chemical kinetics, particularly as applied to gaseous reactions, and the theories, classification and industrial applications of heterogeneous catalysis. Prerequisite: Physical Chemistry. Lectures: Tuesday and Thursday at 5:10 p. m. Four semester-hour credits. Dr. ALMQUIST and Dr. EMMITT. (Not given in 1927-28.)

66. *Advanced Inorganic Chemistry*.—A lecture course including the history and development of chemical laws, theories, hypotheses and concepts, and a systematic study of the properties of the chemical elements with special emphasis on the rarer elements. Monday and Wednesday at 5:10 p. m. Four semester-hour credits. Dr. GILCHRIST.

67. *Advanced Organic Chemistry*.—A study of special chapters of Organic Chemistry such as the sugars, the terpenes, the polypeptides, the azo compounds and heterocyclic ring systems. Tuesday and Thursday at 5:10 p. m. Four semester-hour credits. Dr. AMBLER.

91. *Research in Biochemistry*.—Professor ROE.

93. *Research in Organic Chemistry*.—Professor MACKALL.

CHEMICAL SOCIETY OF WASHINGTON

*(Local Section of the American Chemical Society)*

Students of Chemistry are invited to attend the meetings of the Chemical Society of Washington. Twelve meetings are held each year in the Assembly Hall of the Cosmos Club.

CHEMICAL SOCIETY OF THE GEORGE WASHINGTON UNIVERSITY

Students of Chemistry are invited to join the Chemical Society of the George Washington University and to take part in its activities.



Monthly meetings are held, at which time prominent chemists address the Society on topics of general chemical interest.

### CIVIL ENGINEERING

#### *First Section. Primarily for Undergraduates.*

1. *Elementary or Plane Surveying.*—A course for civil engineering students. Lectures, recitations, field work, computations and drafting. Lectures and recitations include the theory, adjustment and use of surveying instruments; the principles and methods of surveying. Field work includes adjustment of instruments, measuring areas, leveling, traverse work, etc. Computation and drafting include reduction of all field work and plotting results. Text-book, Vol. 1 of Surveying, by Breed and Hosmer. Two recitations per week and three hours per week for field and drafting work during the first semester. Prerequisite: Math. 9 or 12. Three semester-hour credits. Professor FRENCH.

2. *Railroad Engineering.*—This course includes recitations, field and drawing-room work. The recitations cover railroad curves and earth-work, methods of location and construction of railway lines. The field work consists of a preliminary and location survey; the laying out of circular and transition curves, etc. The computations and mapping consist of making an estimate of quantities and cost of a piece of line, making maps, profiles and a mass diagram. Two lecture-recitations and one three-hour field or drawing period a week throughout the year. Six semester-hour credits. Prerequisite: C. E. 1. Professor FRENCH.

3. *Highways and Pavements.*—This course comprises the study of highway economies, location, construction and maintenance; the various methods of surfacing; the materials used and the standard tests of these materials. A study is also made of the methods of street paving, street grades, etc. Four semester-hour credits. Prerequisites: C. E. 1 and 4, or taken concurrently with C. E. 1 and 4. Associate Professor SCHUYLER.

4. *Materials of Construction.*—A course in the study of the properties and uses of gypsum, lime, brick, stone, cement, wood, iron, steel and some of the alloys. The text-book work is supplemented by the assignment of special topics which are prepared and presented to the class and by trips to testing laboratories and manufacturing plants. Two hours a week. Four semester-hour credits. Professor LAPHAM.

5. *Elementary Surveying.*—A course for mechanical and electrical engineering students, covering the use of the compass, transit, and level. Lectures and field exercises. Given in Summer School only. Two semester-hour credits. Prerequisite: Mathematics 9 or 12. Professor FRENCH.

9. *City Planning*.—Lectures and recitations covering the principles governing the planning of a modern city. It includes transportation systems, street layout, park and recreation facilities, public buildings, zoning for various purposes, etc. Two hours per week during the first semester. Two semester-hour credits. Captain WOOD. (Not given in 1927-28.)

*Second Section. For Undergraduates and Graduates.*

20. *Higher Surveying*.—Lectures, recitations, field work, and computation. This course includes the elements of geodesy, triangulation, topography (transit and stadia, plane-table and photographic methods), hydrography, precise and trigonometric leveling, as well as descriptions and use of the instruments used for such work. Field work includes measurement of angles for triangulation, topography by transit and stadia and plane-table methods, including the necessary computations. Breed and Hosmer's *Surveying*, Vol. 2. Two recitations per week and three hours per week for field work during the second semester. Three semester-hour credits. Prerequisites: Mathematics 9 or 12 and C. E. 1. Professor FRENCH.

21. *Hydraulic Engineering*.—A study of stream flow, dams, hydraulic motors, and water power plants. Two recitations per week for one semester. Two semester-hour credits. Prerequisite: Applied Mathematics 21. Assistant Professor RANDOLPH.

22. *Structures*.—A course covering the determination of stresses in simple framed structures and their deflections by graphical and analytical methods. The first term is principally devoted to graphic statics; the second to bridge trusses under uniform and wheel loads. Six semester-hour credits. (Mechanical Engineering students take only the first term. Three semester-hour credits.) Prerequisites: Physics 1 and Applied Mathematics 20 or taken concurrently with A. M. 20. Professor HITCHCOCK.

23. *Structures*.—A course covering the determination of stresses in the more complicated framed structures such as arches, drawbridges, cantilever bridges and suspension bridges; also the design of timber and steel roof trusses and buildings; plate girder, riveted and pin-connected bridges; bridge piers and abutments. Ten semester-hour credits. Prerequisites: C. E. 22 and Applied Mathematics 20 and 22. Professor HITCHCOCK.

24. *Sanitary Engineering*.—Water supply; the collection, storage and distribution of water; the design and construction of dams, reservoirs and storage tanks; the design, construction and maintenance of water distributing systems; pumping machinery; quality of water; interpretation of water analyses; methods of water purification; the



relation of water supply to infectious diseases. Each student designs a water supply system for a small town.

Sewerage; sewerage and drainage systems; methods of disposal of sewage and trade wastes; treatment of sewage; garbage and refuse disposal. Each student designs a sewer system for a small town. Three recitations and one design period. Eight semester-hour credits. Prerequisites: Chemistry 1 and Applied Mathematics 21. Professor LAPHAM.

27. *Reinforced Concrete Construction*.—The theory and design of reinforced concrete slabs, beams, columns, foundations and walls; estimating reinforced concrete work; structures of plain concrete and masonry; tests of cement and concrete. Two recitations and one design period. Six semester-hour credits. Prerequisite: Applied Mathematics 22. Professor HITCHCOCK and Mr. OLENIK.

29. *Practical Astronomy*.—This course includes the elements of astronomy covering descriptions of the planes of reference, the various kinds of time used in astronomy with methods of changing from one to another, use of the ephemeris and star catalogues, several methods for determining the latitude, time, longitude and azimuth. Each student is required to make observations to determine latitude, time, longitude and azimuth, and compute the same. Practical Astronomy by Hosmer. Two hours per week during the second semester. Two semester-hour credits. Prerequisites: Mathematics 9 or 12, C. E. 1. Professor FRENCH.

#### *Third Section. Primarily for Graduates.*

50. *Reinforced Concrete Structures*.—Hours and credits to be arranged. Professor HITCHCOCK.

51. *Advanced Steel Structures*.—Hours and credits to be arranged. Professor HITCHCOCK.

54. *Sanitary Engineering*.—Hours and credits to be arranged. Professor LAPHAM.

55. *Geodesy and Geodetic Astronomy*.—Hours and credits to be arranged. Professor FRENCH.

### CLASSICAL LANGUAGES AND LITERATURE

#### Greek

#### *First Section. Primarily for Undergraduates.*

A. *Elementary Course*.—For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirement in Greek, with the exception of Homer. Monday, Wednesday and Friday, 10:10 a. m. Six semester-hour credits. Professor SMITH.

B. *Homer: Iliad I-IV*.—For students who have taken Course A and desire to prepare themselves to enter Course I. Tuesday and Thursday, 9:10 a. m. Four semester-hour credits. Professor SMITH. (Not given in 1927-28.)

1. Herodotus (selections); Lysias (selected orations); Euripides (*Alcestis*); Greek prose composition. Monday, Wednesday and Friday, 3:10 p. m. Six semester-hour credits. Professor SMITH.

2. Xenophon (*Memorabilia*); Thucydides (*Book VII*); Sophocles (*Antigone*). Monday, Wednesday and Friday, 11:10 a. m. Six semester-hour credits. Professor SMITH.

*Second Section. For Undergraduates and Graduates.*

20. Plato (selections, including the *Apology* and *Crito*); Aristophanes (*Clouds* or *Frogs*). Tuesday and Thursday, 2:10 p. m. Four semester-hour credits. Professor SMITH.

21. Demosthenes (selected orations); Lucian (selected dialogues); Homer (selections). Tuesday and Thursday, 2:10 p. m. Four semester-hour credits. Professor SMITH. (Not given in 1927-28.)

Latin

*First Section. Primarily for Undergraduates.*

B. *Cicero's Orations and Vergil's Aeneid*.—For students who have satisfied the admission requirements in elementary Latin but have not done the work specified under the advanced requirements. It will include a thorough study of several of the *Orations* and of selected parts of the *Aeneid*, supplemented by private reading and some practice in the writing of Latin. Tuesday, Thursday and Saturday, 11:10 a. m. Six semester-hour credits. Cannot be counted toward the twenty-four hour requirement for a major in Classics. Professor SMITH.

1. Livy (*Book I or XXI*); Cicero (*De Senectute*); Horace (*Odes and Epodes*); Latin prose composition. Open to students who have satisfied the admission requirements in elementary and advanced Latin, or have satisfactorily completed Course B. Monday, Wednesday and Friday, 2:10 p. m. Six semester-hour credits. Professor SMITH.

2. Cicero and Pliny (selected Letters); Horace (*Satires and Epistles*); Martial (selections). Monday, Wednesday and Friday, 4:10 p. m. Six semester-hour credits. Professor SMITH.

*Second Section. For Undergraduates and Graduates.*

20. Tacitus (selections); Terence (*Phormio*); Plautus (*Captivi*). Tuesday and Thursday, 10:10 a. m. Four semester-hour credits. Professor SMITH. (Not given in 1927-28.)



21. Quintilian, Book X, and Horace, *Ars Poetica*; Catullus, Tibullus and Propertius. Tuesday and Thursday, 10:10 a. m. Four semester-hour credits. Professor SMITH.

22. *Advanced Latin Composition and Reading at Sight*.—Practice in Latin expression and style. Thursday, 3:10 p. m. Two semester-hour credits. Professor SMITH.

### *Third Section. Primarily for Graduates.*

The work in this section is designed to afford discipline in the methods of philological criticism, with special reference to the interpretation of classical authors, and will include opportunities for original research on the part of competent students. In order to make the work as helpful as possible for those who expect to become teachers, the center of study each year will be one of the authors usually taught in the secondary schools. With the approval of the instructor, properly qualified seniors may be admitted to these courses. The authors selected are as follows:

50. *Vergil, and Roman Epic Poetry*.—Two hours. Six semester-hour credits. Professor SMITH. (Not given in 1927-28.)

51. *Caesar and the Roman Historians*.—Two hours. Six semester-hour credits. Professor SMITH. (Not given in 1927-28.)

52. *Cicero, and Roman Oratory*.—Two hours. Six semester-hour credits. Professor SMITH.

### Classical Literature

#### *Second Section. For Undergraduates and Graduates.*

21. *General Survey of Classical Greek Literature (in English)*.—This course is designed to give an outline of the development of the different departments of literature in ancient Greece and will include readings, in translation, from the most important authors. Being primarily intended for students who are not taking Greek or Latin, it does not require a knowledge of those languages, and is open to all undergraduates as an elective. Tuesday and Thursday, 4:10 p. m. Four semester-hour credits. Professor SMITH. (Not given in 1927-28.)

22. *General Survey of Latin Literature (in English)*.—This course is similar in purpose and method to Course 1, and will alternate with it. The subject of study will be the work of the most important ancient Roman authors. Tuesday and Thursday, 4:10 p. m. Four semester-hour credits. Professor SMITH.

### COMMERCE

*Commerce Major for A.B. Degree*.—Undergraduate students majoring in Domestic Commerce or in Foreign Commerce should refer to the section of the catalogue outlining the requirements for the freshman and sophomore years of the Commerce curriculum, including the several

courses in history and government, and should note particularly the requirement of General Economics as a sophomore subject and as a prerequisite for courses in Commerce. In arranging their work for the junior and senior years they should note the following:

*Domestic Commerce.*—If majoring in Domestic Commerce they are required to take Industrial and Commercial Geography. Their attention is also directed, not only to the various courses listed or referred to under the heading "Commerce," such as History of Commerce, Industrial and Commercial History of the United States, Marketing, Commercial and Maritime Law, Principles of Railway Transportation, Railway Traffic and Rates, Money and Banking, Banking Operation, Federal Reserve System, Investments, Corporation Finance, and Statistics, but also to courses in related subjects listed elsewhere in the catalogue. They should consult the head of the department for approval of courses counting toward the major requirement, and for advice in the choice of related courses advisable as electives.

*Foreign Commerce.*—If majoring in Foreign Commerce they are required to take Industrial and Commercial Geography and International Economic Relations. Their attention is also directed, not only to the various courses listed or referred to under the heading "Commerce," such as History of Commerce, Industrial and Commercial History of the United States, Commercial and Maritime Law, International Finance, and Foreign Trade, but also to courses described under other headings, such as International Law, International Relations, the Near East, the Far East, and Latin America, and various courses in modern languages (French, German, Spanish and Italian). They should consult the head of the department for approval of courses counting toward the major requirement, and for advice in the choice of related courses advisable as electives.

*Graduate Work in Domestic or Foreign Commerce.*—Candidates for higher degrees (A.M. or Ph.D.) may specialize in Domestic Commerce or in Foreign Commerce by appropriate choice of courses, including the Seminar, subject to the approval of the head of the department and the Dean of the School of Graduate Studies, and to the general regulations governing graduate work.

*Foreign Service.*—Reference is made to the section of the catalogue on Public Service Courses, which outlines the subjects essential in training for foreign service. Appropriate choice of major and elective courses provides such foreign service training.

#### *Second Section. For Undergraduates and Graduates.*

**24. Industrial and Commercial Geography.**—Summary of economic aspects of facts and principles of geography; analysis of the modern in-



dustrial and commercial structure as governed by economic and geographic principles; survey of world's resources, industries and trade; attention given to important markets and sources of raw materials, and to commercial policies. Prerequisite: Principles of Economics. Section A—Monday, Wednesday and Friday, 2:10 p. m.; Section B—Monday, Wednesday and Friday, 6:10 p. m. Six semester-hour credits. Professor DONALDSON.

27. *History of Commerce*.—A study of the influence of the processes of commerce and industry upon the history of civilization, and of the historical development of commercial and industrial institutions; emphasis is placed upon the Industrial Revolution and the subsequent evolution of the modern economic system; includes consideration of World War changes and post-war problems. Prerequisite: Principles of Economics. First semester. Tuesday, Thursday and Saturday, 6:10 p. m. Three semester-hour credits. Mr. YOUNG.

28. *Industrial and Commercial History of the United States*.—A history of the economic development of the nation and of its latter-day commercial and industrial problems. Prerequisite: Principles of Economics. Second semester. Tuesday, Thursday and Saturday, 6:10 p. m. Three semester-hour credits. Mr. YOUNG.

*Money and Banking*.—See Economics 27 and 29.

*Public Finance*.—See Economics 26 and 30.

*Banking Operation*.—See Economics 31.

*Federal Reserve System*.—See Economics 32.

*Investments*.—See Economics 33.

*International Finance*.—See Economics 34.

*Corporation Finance*.—See Economics 35.

*Statistics*.—See Economics 45, 46, and 47.

30. *Marketing*.—Principles, methods, and problems of marketing; includes analysis of wholesale and retail methods, speculation, the problem of elimination of middlemen, price control, the relation of the state to marketing, and the cooperative movement. Prerequisite: Principles of Economics. Tuesday, Thursday and Saturday, 5:10 p. m. First semester. Three semester-hour credits. Mr. YOUNG.

33. *Commercial and Maritime Law*.—A study of the principles of the law relating to commercial transactions, especially contracts, sales, bailments, agency, partnership, negotiable instruments, and common carriers, with some study of Admiralty law. Section A—Tuesday and Thursday, 11:10 a. m.; Section B—Tuesday and Thursday, 6:10 p. m. Four semester-hour credits. Professor ALDEN.

38. *Principles of Railway Transportation*.—The principles of transportation; the American railway system; organization; labor; finance; combination; government aid, operation and control. Emphasis is

placed upon national railway policy. Prerequisite: Principles of Economics. Monday, Wednesday and Friday, 3:10 p. m. First semester. Three semester-hour credits. Professor DONALDSON.

39. *Principles of Ocean Transportation*.—Nature of ocean transportation; routes, ports and terminals; the carrier; bunkering; cargo; organization; services and rates; mercantile marine policies—government regulation and aid. Prerequisite: Principles of Economics. (Not given in 1927-28.) Three semester-hour credits. Professor DONALDSON.

40. *Railway Traffic and Rates*.—Analysis of traffic; types of services; organization and management; theory and practice of rate-making; documents and processes in railway traffic; regulation. Prerequisites: Principles of Economics and Principles of Railway Transportation. Monday, Wednesday and Friday, 3:10 p. m. Second semester. Three semester-hour credits. Professor DONALDSON.

41. *Ocean Traffic and Rates*.—Types of services; organization and management; chartering; rates and finances; marine insurance; papers and documents. Prerequisites: Principles of Economics and Principles of Ocean Transportation. (Not given in 1927-28.) Three semester-hour credits. Professor DONALDSON.

43. *Foreign Trade*.—Principles and practices; underlying economic factors; market development; finance and documentation; regulation and promotion. Special attention is given to an analysis of the trade of the United States and to a survey of important markets. Prerequisite: Principles of Economics. Tuesday, Thursday and Saturday at 5:10 p. m. Second semester. Three semester-hour credits. Mr. YOUNG.

44. *International Economic Relations*.—A comprehensive study of the structure of world economy and of international economic policies; geographic, social, political, legal, and territorial factors; the principles, policies, and interrelation of world industry, trade, transportation, and finance; international agreements and organizations. Includes special analysis of mandates, spheres of interest, foreign concessions, and other aspects of economic "imperialism," world trusts, double taxation, control of raw materials, and other international industrial problems, tariff principles, technique, and policies, merchant marine policies, foreign investments, commercial treaties, and other outstanding problems of foreign affairs. Prerequisite: Principles of Economics. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. Professor DONALDSON.

46. *Relation of Government to Business*.—A course in politico-economics: the interrelation of political and economic institutions; property and contract; economic individualism versus socialism; the regulation of monopoly, unfair trade practices and public utilities; practical



problems in the organization of business and its relation to the public. Prerequisite: Principles of Economics. (Not given in 1927-28.) Six semester-hour credits. Professor DONALDSON.

*Third Section. Primarily for Graduates.*

54. *Seminar*.—Special study of principles and advanced problems of economics and commerce, involving presentation and round-table discussion of chapters from Masters' and Doctors' theses in course of preparation, and other papers and monographs based on original research by advanced students; includes training in use of sources and research methods. Required for graduate students majoring in Commerce. Qualified seniors majoring in Commerce may be admitted. For admission to the Seminar, consult instructor. Hours to be arranged. Six semester-hour credits. Professor DONALDSON.

**ECONOMICS, SOCIOLOGY, STATISTICS**

**Economics**

*First Section. Primarily for Undergraduates.*

1. *Principles of Economics*.—A survey of the basic principles which underlie the production, consumption and distribution of wealth in modern society. Prices, business organization, banking, international trade, labor problems, relation of government to business, marketing, transportation and taxation indicate the principal topics discussed in this course. Six semester-hour credits. Section A—Monday, Wednesday and Friday at 9:10 a. m.; Section B—Monday, Wednesday and Friday at 10:10 a. m.; Section C—Tuesday, Thursday and Saturday at 10:10 a. m. Mr. YOUNG.

2. *Principles of Economics*.—Parallel with Course 1. Six semester-hour credits. Monday, Wednesday and Friday at 6:10 p. m. Associate Professor SUTTON.

Note:—Freshmen are not admitted to 1 and 2 except by special permission of the instructor. Courses 1 and 2 are not included as satisfying the requirement of twenty-four hours' credit for the major.

*Second Section. For Undergraduates and Graduates.*

Note:—Courses 24, 25, 26, 27, 29, 30, 33, 35 and 41 have as prerequisites 1 and 2. Courses 31, 32 and 34 have as prerequisites 27 or 29 or the equivalent. Course 33 has as prerequisite Course 35.

24. *The History of Economic Thought*.—A review of the development of economics as a science from the earliest times to the present. Lectures and library readings. First semester. Monday, Wednesday and Friday, 5.10 p. m. Three semester-hour credits. Professor KERN.

25. *Economic Problems*.—An advanced course devoted to a more

thorough study of the problems developed in the general course in economics. Research and preparation of papers to be presented to the class for discussion and criticism. Second semester. Monday, Wednesday and Friday, 5.10 p. m. Three semester-hour credits. Professor KERN.

26. *Public Finance*.—A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State Governments. The theory of taxation; administration of public domains and industries; public debts. Second semester. Tuesday and Thursday, 6:10 p. m. Two semester-hour credits. Professor KERN.

27. *Money and Banking*.—The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national system of the United States and the banking systems of foreign nations. First semester. Tuesday and Thursday, 6:10 p. m. Two semester-hour credits. Professor KERN.

29. *Money and Banking*.—An introductory course presenting the theory and history of money; basic principles of credit and their application to business through the various types of banking institutions; a general view of banking systems of the world with particular reference to the Federal Reserve system in the United States. First semester. Monday, Wednesday and Friday at 11:10 a. m. Three semester-hour credits. Associate Professor SUTTON.

30. *Public Finance*.—A course designed to survey the principles employed by governments in securing and spending funds required for operation and development; special emphasis upon taxation, borrowing and budget-making. Second semester. Monday, Wednesday and Friday at 11:10 a. m. Three semester-hour credits. Associate Professor SUTTON.

31. *Banking Operation*.—Operation of various departments of a bank; relations with other banks; administrative problems; selection of business; banking needs of local community; investment management; discount policies. Three semester-hour credits. (Not given in 1927-28.) Associate Professor SUTTON.

32. *Federal Reserve System*.—The principles of central reserve banking; brief history of evolution of the Federal Reserve system; its present organization and operation with emphasis upon the elasticity of its lending power, its selective power, and the effectiveness of its discount and open market operations; the extent to which its facilities are utilized. (Not given in 1927-28.) Second semester. Three semester-hour credits. Associate Professor SUTTON.



33. *Investments*.—A course in the basic principles of investment. The analysis of the various factors of investment credit and their application to the different types of investments. The needs of various classes of private and institutional investors. The proper selection of securities adapted to these needs. The necessary care of investments after making them. This course should be preceded by Corporation Finance (Economics 35) given the first semester. Second semester. Three semester-hour credits. Section A—Tuesday, Thursday and Saturday, 9:10 a. m.; Section B—Monday, Wednesday and Friday, 5:10 p. m. Associate Professor SUTTON.

34. *International Finance*.—Basic principles of international credit and exchange with particular reference to the conditions created by the World War; structure of international credit; exchange rates; gold movements; limits of national credit; depreciated currencies; the problem of reestablishing credit and methods employed by European nations to accomplish it; reparations and their economic consequences. Second semester. (Not given in 1927-28.) Three semester-hour credits. Associate Professor SUTTON.

35. *Corporation Finance*.—A study of the financial structure and problems of modern business corporations; securities and their variation in risk and control; mergers; receiverships; reorganization. First semester. Section A—Tuesday, Thursday and Saturday at 9:10 a. m.; Section B—Monday, Wednesday and Friday, 5:10 p. m. Three semester-hour credits. Associate Professor SUTTON.

41. *Price Movements and Business Cycles*.—This course begins with a study of the factors determining the general level of prices. Then the interrelation of price movements to the business cycle and the state of industrial activity will be set forth. Such schemes for stabilizing prices as "managed currency," "the compensated dollar," and "credit control" will be examined. Considerable attention throughout the course will be given to an examination of the various methods employed in forecasting price movements. Lectures, assigned readings and discussions. Second semester. Tuesday, Thursday and Saturday at 5:10 p. m. Three semester-hour credits. (Not given in 1927-28.)

43. *Combinations, Trusts*.—A discussion of the conditions which have favored the growth of large business combinations, the nature of their organization, their influence upon prices and productive efficiency, and the regulation and supervision of them. First semester. Monday and Friday, 9:10 a. m. Two semester-hour credits. Professor KERN.

44. *Labor Problems*.—A brief sketch of the labor movement in the United States and of the aims and methods of trade unions, followed by a discussion of such problems as: child labor; dangerous occupations; workingmen's insurance against sickness, old age, accident, and

unemployment; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. Second semester. Monday and Friday, 9:10 a. m. Two semester-hour credits. Professor KERN.

*Third Section. Primarily for Graduates.*

50. *Seminar in Economics*.—A research course for graduate students in Economics. Six semester-hour credits. Hours to be arranged. Given by the staff. Not given in 1927-28.

52. *Seminar in Finance*.—Weekly meetings will be held to give training in research in banking, finance and investments. Opportunity will be given for the presentation and criticism of theses of graduate students as well as the special investigations of other qualified students. A general topic will be divided into phases and assigned to those having no preference as to topic. Graduate students, seniors and others qualified by their study or experience should obtain the instructor's consent before registering. Time of meeting to be arranged. Six semester-hour credits. Associate Professor SUTTON.

Note:—The attention of the student is called to the courses in marketing, transportation and commerce given in the department of commerce. Credit for these courses to the extent of twelve hours will be included as satisfying the requirement of twenty-four hours' credit for the major in economics.

Sociology

*Second Section. For Undergraduates and Graduates.*

(Freshmen are not admitted to 20, 22 and 23 except by special permission of the instructor.)

20. *Experimental Sociology*.—The course is devoted mainly to the study of social behavior, customs, and social judgments upon such behavior. The student is expected to join the class in making careful observations of social conduct and in making a series of experiments adapted to the development of a better understanding and improved technics for the control of social conduct. Section A—Monday, Wednesday and Friday at 11:10 a. m. Six semester-hour credits. Section B—Tuesday and Thursday, 5:10 p. m. Four semester-hour credits. Professor KERN.

22. *General Sociology*.—An outline course in the principles of sociology devoted mainly to an examination of the organization of society and its ideals, with a study of the social systems, their functions, efficiencies and programs for their development. First semester. (Not given in 1927-28.) Tuesday and Thursday, 5:10 p. m. Two semester-hour credits. Professor KERN.

23. *Modern Social Problems*.—A further analysis of modern social conditions with special studies of current questions in sociology. Pre-



requisite: The course in general sociology. Second semester. (Not given in 1927-28.) Tuesday and Thursday, 5:10 p. m. Two semester-hour credits. Professor KERN.

36. *Social Service Case Work*.—The topics discussed include the field of social case work, investigations, social diagnosis, cooperation, social resources, adaptation of special resources to special needs, recording of case data, methods of reporting, handling of problem cases, housing. A series of case records will be studied to illustrate the processes. Thirty class periods and forty-five hours of field work. Second semester. Tuesday and Thursday at 5:10. Three semester-hour credits. Miss MCGUIRE.

38. *Community Organization*.—A study of community resources for social work. The course will be divided into three parts, dealing with history, theory, and practice. The first part will show the transition from the monastic period to the period when communities had developed, will discuss English experiences and practices, and will bring out the birth of modern social work. The second part will deal with social organization, social control, etc. The third part, which will comprise the main body of the course, will deal with such topics as the development of community social agencies, charity organizations, cooperation, and fund-raising. Tuesday and Thursday at 6:10. Two semester-hour credits. Mr. HYDE.

#### *Third Section. Primarily for Graduates.*

51. *Seminar in Sociology*.—A research course for the detailed investigation of special sociological problems, suitable for those who are engaged in original investigation or in the preparation of a thesis. Hours to be arranged. Six semester-hour credits. Professor KERN.

Note:—The attention of the student is called to the courses in Ethnology. Credit to the extent of twelve hours will be included as satisfying the requirement of twenty-four hours' credit for the major in sociology.

#### Statistics

#### *Second Section. For Undergraduates and Graduates.*

45. *Elementary Statistics*.—Elements of statistical methods, including definition and isolation of the problem, collection of material, classification and tabulation, diagrams and graphs, types, dispersion, correlation, error, processes of smoothing, during the first semester. A brief study of index numbers, and an application of elementary statistical methods to some field of inquiry, during the second semester. Tuesday, Thursday and Saturday, 5:10 p. m. Six semester-hour credits. Doctor PHILLIPS.

46. *Curve Fitting*.—A study of curve fitting in which equations of the first and higher orders are used. Development of formulas for the solution of higher order equations. Regression values and correlation. Partial correlation, total correlation, and regression equations. Correlation ratios and their parabolic and cubic regressions. The probability curve, its use, probable error and tests of reliability. An application of each topic to some statistical problem. Prerequisite: Sociology 45 or its equivalent. Tuesday and Thursday, 7:30 p. m. Six semester-hour credits. Doctor PHILLIPS.

47. *Vital Statistics*.—A preliminary study of the recognized processes of smoothing data for elimination of trend, seasonal effects. Probability distributions and error of sampling. Vital statistics, including enumeration and registration; birth, death, and marriage rates; methods of adjustment, morbidity rates, and the general application of statistical methods to the field of public health. Prerequisite: Sociology 45, or its equivalent. Tuesday and Thursday, 7:30 p. m. (Not given in 1927-28.) Six semester-hour credits. Doctor PHILLIPS.

### EDUCATION

*Major*.—30 semester-hours, including basic courses and related courses in psychology. A major in this field is advised only for teachers of experience preparing to become supervisors, principals, critic teachers, or teachers of education.

#### *Second Section. For Undergraduates and Graduates.*

20a. *Principles of Teaching*.—A comprehensive course in the principles underlying the teaching process in its intellectual, emotional and motor phases. Special attention is given to making teaching concrete and meaningful. First semester. Monday, Wednesday and Friday, 9:10 a. m. Three semester-hour credits. Professor RUEDIGER.

20b. *Principles of Education*.—A comprehensive course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. Second semester. Monday, Wednesday and Friday, 9:10 a. m. Three semester-hour credits. Professor RUEDIGER.

21a. *Principles of Education*.—A course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. First semester. Tuesday and Thursday, 4:10 p. m. Two semester-hour credits. Professor RUEDIGER.

21b. *Principles of Teaching*.—A course in the psychological and logical principles underlying the teaching process. Second semester. Tuesday and Thursday, 4:10 p. m. Two semester-hour credits. Professor RUEDIGER.



(Courses 20 and 21 should be preceded or accompanied by general psychology. Course 21 is designed especially for teachers in service.)

22. *History of Education*.—A course in the historical development of educational theory and practice with special reference to secondary education. First semester. Monday, Wednesday and Friday at 10:10 a. m. Three semester-hour credits. Associate Professor POWERS.

23. *School Hygiene and Sanitation*.—Same as Preventive Medicine 36. Tuesday and Thursday at 4:10 p. m. First semester. Two semester-hour credits. Dr. ROGERS.

24. *History of Elementary Education*.—Second semester. Monday, Wednesday and Friday at 10:10 a. m. Three semester-hour credits. Associate Professor POWERS.

25a. *The High School*.—Recent growth in secondary education; aims and functions; types of reorganization; programs of study; classification and guidance; extra-curricular activities; plant; costs; standardization. Monday, Wednesday and Friday at 5:10 p. m. First semester. Three semester-hour credits. Associate Professor POWERS.

25b. *The Junior High School*.—A study of the special purposes of the junior high school and the appropriate reorganization to achieve them; The program of studies; classification of pupils; types of reorganization; history of the movement. Monday, Wednesday and Friday at 5:10 p. m. Second semester. Three semester-hour credits. Associate Professor POWERS.

26. *Elementary Education*.—Four semester-hour credits. Doctor DAVIS. (Not given in 1927-28.)

27. *School Administration*.—Present status and tendencies in organization and administration of school systems with interpretations; problems of administration. First semester. Saturday, 9:10-11:00. Two semester-hour credits. Associate Professor POWERS.

28. *Supervision*.—The objectives of school supervision; prevailing practices; technique of classroom visitation; improving instruction; stimulating initiative and professional growth; developing esprit de corps; functions of teachers' meetings; teacher rating. Saturday, 9:10-11:00. Two semester-hour credits. Associate Professor POWERS.

31a. *The Exceptional Child*.—A study of gifted, backward, sub-normal, neurotic, and morally and socially inadequate children. The course includes the study of standard tests and of other methods of measuring individual differences. First semester. Saturday, 9:10-11:00. Two semester-hour credits. Miss LA SALLE.

31b. *Tests and Measurements*.—This course aims to familiarize teachers with the present status and significance of the measurement of educational achievement and the utilization of the data obtained

in guiding instruction and study. Second semester. Saturday, 9:10-11:00. Two semester-hour credits. Miss LA SALLE.

32. *Mental and Educational Tests*.—(a) First semester: An introductory course in mental tests. (b) Second semester: A study of the principal educational tests now used. Laboratory fee, \$2.00. Monday, Wednesday and Friday at 2:10 p. m. Six semester-hour credits. Assistant Professor ROSE.

34. *Observation*.—Observation of experienced teachers, under guidance, followed by discussion. The course should normally be taken in the junior year. Three semester-hour credits. Associate Professor POWERS.

35. *Practice Teaching*.—Teaching under supervision and criticism. The course should normally be taken in the senior year. Three semester-hour credits. Associate Professor POWERS.

36. *Americanization*.—Methods of teaching English, civics and related subjects to foreigners. Consideration will be given to racial backgrounds, immigration laws, naturalization laws, conceptions of Americanization, and adult education. Tuesday and Thursday at 6:10 p. m. Two semester-hour credits. Miss AITON.

40. *Vocational Guidance*.—Four semester-hour credits. Mr. SCOTT. (Not given in 1927-28.)

42. *Applied Psychology*.—Same as Psychology 42. First semester. Saturday, 11:10-1:00. Two semester-hour credits. Mr. MIDDLETON and Miss HUNT.

43. *Educational Psychology*.—Same as Psychology 43. Second semester. Saturday, 11:10-1:00. Two semester-hour credits. Mr. MIDDLETON and Miss HUNT.

45. *Statistical Methods*.—Same as Economics 45. Tuesday, Thursday and Saturday at 5:10 p. m. Six semester-hour credits. Doctor PHILLIPS.

### *Third Section. Primarily for Graduates.*

50. *Seminar*.—Topic for 1927-28: Methods of teaching, with special reference to experimental investigations. A paper embodying constructive scholarship will be required of each member of the class. Tuesday and Thursday at 5:10 p. m. Six semester-hour credits. Professor RUEDIGER.

52. *Seminar*.—Topic for 1927-28: The High School Curriculum. Historical development of the present high school curriculum; studies of present status and tendencies; types of programs of study; types of procedure for determining content; the subjects of study; problems of administration of the program of studies. Research problems and reports. Tuesday and Thursday at 6:10 p. m. Six semester-hour credits. Associate Professor POWERS.



## ELECTRICAL ENGINEERING

*First Section. Primarily for Undergraduates.*

1. *Engineering Electricity*.—General course in Electrical Engineering for non-electrical students, including a study of magnetism, electromagnetism, direct currents, direct current machinery, alternating current theory, alternating current machinery, and the more important applications of direct and alternating currents. The entire scope of electrical engineering is covered as completely as time will permit, including inspection of operating power plants. Prerequisites: Physics 1, 2. Four semester-hour credits. Associate Professor AMES.

2. *Direct Current Theory; Dynamo Machinery, Alternating Current Theory*.—A comprehensive course beginning with magnetism, electromagnetism, theory of direct currents, direct current instruments and machinery, storage batteries, arc lamps and other applications of direct currents.

During the second semester the theory of simple and complex alternating current circuits and the application of complex numbers and vectors are taken up in preparation for alternating current machinery the following year. Problems involving the theory studied are assigned from Lyon's "Problems in Electrical Engineering." Prerequisites: Physics 1, 2; Mathematics 18 or 19. Six semester-hour credits. Mr. ROESER.

4. *Electrical Laboratory*.—A combined course in measurements and dynamo laboratory paralleling the classroom work in E. E. 2. Representative experiments are assigned in the testing of various instruments, motors, generators, arc lamps, fuses and circuit breakers. A complete report covering all work done and results obtained with a discussion thereof is required. This will consist of a preliminary report which must be submitted and approved at least one day prior to performance and a final report showing experimental data and calculated results therefrom with discussion. One laboratory period per week throughout the year. Credit given is based on work done under supervision in the laboratory and outside in the working up of results. Four semester-hour credits. Prerequisite: E. E. 2 or equivalent. Associate Professor AMES and Mr. ROESER.

5. *Electrical Laboratory*.—A course for non-electrical students. Similar to E. E. 4 but embodying experiments in alternating currents and alternating current machinery during the second semester. The same requirements as to reports, procedure, credits, etc., as in E. E. 4 apply. To be taken the year following E. E. 1. Prerequisite: E. E. 1 or equivalent. Four semester-hour credits. Associate Professor AMES.

*Second Section. For Graduates and Undergraduates.*

21. *Alternating Current Theory and Machinery.*—A continuation of E. E. 2, including a brief review of alternating current theory covered therein and a thorough study of synchronous generators, transformers, synchronous motors, rotary converters, and various asynchronous machines, including single and polyphase induction motors, series and repulsion motors. Problems involving the theory studied are taken from Lyon's "Problems in Alternating Current Machinery."

An insight into actual engineering practice is obtained from current engineering journals and inspection of power plants. Prerequisite: E. E. 2 or equivalent. Four hours. Eight semester-hour credits. Associate Professor AMES.

22. *Electrical Distribution.*—A course covering the more important phases of the distribution of electricity for light and power, such as systems of distribution, voltage regulation, substations, distribution lines and cables, metering and transformer practice; problems and references to current technical literature on the subject. Prerequisites: E. E. 2, concurrently with E. E. 21. Two hours. First semester. Two semester-hour credits. Doctor MEYER.

23. *Elements of Transmission.*—A course covering the elements of high tension transmission theory and practice for short and long lines, induction and capacitance, charging current, corona, and methods for calculating voltage and power loss in lines, sags, and mechanical construction. Prerequisite: E. E. 22. Two hours. First semester. Two semester-hour credits. Doctor MEYER.

24. *Advanced Electrical Laboratory.*—A continuation of E. E. 4 with experiments on alternating current circuits and machinery, including watt hour-meters, transformers, synchronous and asynchronous generators and motors. The same requirements as to reports, performance and other work, and credits as followed in E. E. 4 apply. Prerequisites: E. E. 4 or equivalent; E. E. 21 or concurrently therewith. Associate Professor AMES and Mr. ROESER.

26. *Theory and Practice of Hydro-Electric Stations.*—A course for seniors in Electrical Engineering dealing with present-day theory and practice in Hydro-Electric Engineering, including so much of hydraulics as is essentially applied and electrical equipment required for a complete hydro-electric station and system. Familiarity with development as set forth in accepted current electrical periodicals and journals will be required. Two hours. Second semester. Two semester-hour credits. Prerequisites: App. Math. 21, E. E. 1 or 21, or concurrently therewith. Associate Professor AMES.

27. *Electric Railways.*—A course for seniors in Electrical Engineering covering the theory and practice of modern direct and alternating current railways. Familiarity with development as set forth in ac-



cepted current railway journals will be required. Two hours. First semester. Two semester-hour credits. Prerequisite: E. E. 21 or concurrently. Associate Professor AMES.

29. *Illumination*.—A study of the principles and practices of scientific illumination, exterior and interior. Detailed study is made of various light sources, lamps, shades, reflectors, etc. Two hours. First semester. Two semester-hour credits. Prerequisite: Physics 1 or 3. Mr. ROESER.

30. *Electrical Design*.—A course for Electrical Engineering seniors covering principles of design with reference to materials of construction, and electrical equipment. Practical exercises are assigned in connection with class-room work. Prerequisite: E. E. 21 or concurrently. Two hours with one three-hour drafting room period. Second semester. Three semester-hour credits. Associate Professor AMES.

#### *Third Section. Primarily for Graduates.*

50. *Radio-Electricity*.—A mathematical treatment of the fundamental principles with an exposition of their application to present-day practice. Problems based on the methods used and the apparatus employed in the generation of oscillatory currents; the reception of signals; and other features developed in the utilization of this method of transmission will be discussed. Six semester-hour credits, as a Minor; ten semester-hour credits, as a Major. Professor COHEN.

51. *Transient Electric Phenomena*.—A course introductory to the more advanced problems in electrical engineering practice. Simple transients, distributed line constants, the equations of the transmission line, waves along wires and radiation. The course is based on Steinmetz's "Transient Electric Phenomena and Oscillations." Prerequisites: E. E. 21, 22, 23. Two hours throughout the year. Four semester-hour credits. Doctor MEYER.

#### ENGLISH

*New requirement for a major in English, in force in all programs of regular courses arranged after February 1, 1927.*

A major in English for the degree of Bachelor of Arts consists of two first-section courses (1 or 2 and 5 or 6), making twelve semester hours, and eighteen semester hours additional of second-section courses selected from the following: 27 or 28, 30, 32, 36, 38. Candidates for the Bachelor's Degree should consult Associate Professor BOLWELL as to the selection of courses.

For the Master's degree, whatever undergraduate courses may have been taken, the candidate must have completed all of the above courses or their equivalent, and have fulfilled all the general requirements, including one third-section course and the thesis. Candidates for the

Master's degree should consult Professor CROISSANT as to the selection of their courses.

*First Section. Primarily for Undergraduates.*

1. *English Rhetoric*.—The principles of self-expression through language, with practice in composition. Lectures and quiz sections. Tuesday, Thursday and Saturday, 10:10 a. m. Six semester-hour credits. Professor WILBUR, Miss ROSE, Assistant Professor SMITH, Mr. BAKER, Mr. SHEPARD, Mr. BEMENT.

2. *English Rhetoric*.—Parallel with Course 1. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. Professor WILBUR and Mr. BEMENT.

5. *Survey of English Literature*.—Lectures and quiz sections. Tuesday, Thursday and Saturday, 9:10 a. m. Six semester-hour credits. Associate Professor BOLWELL, Assistant Professor SMITH, Mr. BAKER, Mr. SHEPARD.

6. *Survey of English Literature*.—Parallel with Course 5. Lectures and quiz sections. Monday, Wednesday and Friday, 6:10 p. m. Six semester-hour credits. Associate Professor BOLWELL, Assistant Professor SMITH, Mr. BAKER, Mr. SHEPARD.

7. *Types of Literature*.—Lectures and quiz sections. Monday, Wednesday and Friday, 9:10 a. m. Six semester-hour credits. Professor CROISSANT, Assistant Professor SMITH, Mr. BAKER, Mr. SHEPARD.

8. *Types of Literature*.—Parallel with Course 7. Tuesday, Thursday and Saturday at 6:10 p. m. Six semester-hour credits. Professor CROISSANT, Assistant Professor SMITH, Mr. BAKER, Mr. SHEPARD.

9. *English Composition*.—Training in self-expression and writing in forms of composition. Tuesday, Thursday and Saturday, 11:10 a. m. Six semester-hour credits. Mr. BEMENT.

10. *English Composition*.—Parallel with Course 9. Tuesday, Thursday and Saturday at 5:10 p. m. Six semester-hour credits. Mr. BEMENT.

*Second Section. For Undergraduates and Graduates.*

Note.—English 5, 6, 7 or 8 is prerequisite for all second-section courses in literature.

23. *The Development of the Novel*.—The evolution of prose fiction from mediaeval romance to the modern novel. Tuesday, Thursday and Saturday at 10:10 a. m. Six semester-hour credits. Associate Professor BOLWELL.

24. *American Literature*.—Monday, Wednesday and Friday at 4:10 p. m. Six semester-hour credits. Assistant Professor SMITH.

26. *History of the English Language*.—Not given in 1927-28. Four semester-hour credits.



27. *Anglo-Saxon Grammar and Literature*.—First semester, grammar and prose readings; second semester, *Beowulf* and other poetry. Not given in 1927-28. Six semester-hour credits.
28. *Middle English and Chaucer*.—First semester, twelfth and thirteenth century literature; second semester, Chaucer and his contemporaries. Not given in 1927-28. Six semester-hour credits.
30. *Renaissance and Elizabethan Literature*.—Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Associate Professor BOLWELL.
31. *English Drama to 1642*.—From the beginning, exclusive of Shakespeare, to the closing of the theatres. Not given in 1927-28. Six semester-hour credits. Associate Professor BOLWELL.
32. *Shakespeare*.—(1) The Comedies in chronological sequence. Monday, Wednesday and Friday at 6:10 p. m. First semester. Three semester-hour credits. Professor WILBUR.
- (2) The Tragedies in chronological sequence. Monday, Wednesday and Friday at 6:10 p. m. Second semester. Three semester-hour credits. Professor WILBUR.
33. *English Drama Since 1660*.—Tuesday, Thursday and Saturday at 5:10 p. m. Six semester-hour credits. Professor CROISSANT.
36. *The Neo-Classical Movement*.—English literature from 1660 to 1780, exclusive of the drama. Monday, Wednesday and Friday at 10:10 a. m. Six semester-hour credits. Professor CROISSANT.
38. *The Romantic Movement*.—English poetry and prose of the late eighteenth and early nineteenth centuries. Monday, Wednesday and Friday at 6:10 p. m. Six semester-hour credits. Assistant Professor SMITH.
39. *Wordsworth*.—"The Prelude or Growth of a Poet's Mind; an Autobiographical Poem." First semester. Monday, Wednesday and Friday at 10:10 a. m. Three semester-hour credits. Professor WILBUR.
40. *Browning*.—"The Ring and the Book." Second semester. Monday, Wednesday and Friday at 10:10 a. m. Three semester-hour credits. Professor WILBUR.
42. *English Literature Since 1890*.—Tuesday, Thursday and Saturday at 11:10 a. m. Six semester-hour credits. Mr. BAKER.
45. *The Short Story*.—Critical analysis and writing. Open to students only with the consent of the instructor, after submitting a specimen of original composition. Tuesday, Thursday and Saturday at 9:10 a. m. Six semester-hour credits. Mr. BEMENT.
47. *Journalism*.—The fundamentals of newspaper writing. Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Mr. CHACE.

*Third Section. Primarily for Graduates.*

52. *Studies in Elizabethan Literature*.—Open to students only with consent of instructor. Monday evenings. Six semester-hour credits. Associate Professor BOLWELL.

55. *Studies in Neo-Classical Literature*.—Tuesday evenings. Six semester-hour credits. Professor CROISSANT.

## ETHNOLOGY

*Second Section. For Undergraduates and Graduates.*

20. *General Introduction to Ethnology*.—A general course embracing man's place in nature; ancient man; the elements of physical anthropology; the application of statistical methods to physical anthropology; classification of living races; sociology, religious ideas, ethical ideas, and languages of primitive peoples; the beginnings of literature and art; linguistic survey of the world; ethnological survey of the world; discussion of the problems of independent origins versus diffusion; the classical British, Graebnerian, and American schools. Lectures and collateral readings. Tuesday, Thursday and Saturday, 5.10 p. m. Six semester-hour credits. Professor MICHELSON.

*Third Section. Primarily for Graduates.*

51. *Outlines of North American Ethnology*.—As full a description of the aborigines of North America as the time will permit. Lectures and assigned readings. Monday and Wednesday, 5.10 p. m. Four semester-hour credits. Students who have not completed Course 20 must consult the instructor before registering for this course. Professor MICHELSON.

52. *American Indian Languages*.—This is an introductory course, and presupposes only a moderate amount of previous linguistic training. After a brief introduction to the subject, two stocks will be studied, one in each semester. Two hours a week. Four semester-hour credits. Professor MICHELSON.

53. *American Indian Languages* (second course).—This is an advanced course, and members must have taken Course 52, unless they have done an equivalent elsewhere. One hour a week. Two semester-hour credits. Professor MICHELSON.

54. *Seminar in Ethnology*.—Competent students will be assigned topics, and the results discussed at a weekly meeting. Six semester-hour credits. Prerequisite: Course 20 with a grade of A or B, or other evidence of previous training satisfactory to the instructor. This course may be taken four times, counting each time. The subject-matter will be changed yearly. This will be in accordance with the needs of individual students. Professor MICHELSON.



## FOREIGN TRADE

(See Commerce)

## FRENCH

(See Romance Languages)

## GEOLOGY AND GEOGRAPHY

## Geography

*First Section. Primarily for Undergraduates.*

3. *General Geography*.—An introductory course presenting the general principles of geography. Several countries including Northwestern Europe, Australia and India are studied briefly to illustrate the principles. Given in alternate years. Not given in 1927-28. Wednesday, 6:10 p. m. Two semester-hour credits. Assistant Professor RESSER.

5. *North America*.—A brief study of the geography of North America stressing the human elements. This course offers much of general interest and gives the knowledge every citizen should have of his country. Given in alternate years. Given in 1927-28. Wednesday, 6:10 p. m. Two semester hour credits. Assistant Professor RESSER.

7. *Physical Geography*.—A brief course in the general sense of the term, but emphasizing the study of the elements of climate and biogeography. Wednesday, 5:10 p. m. Two semester-hour credits. Assistant Professor RESSER.

*Second Section. For Undergraduates and Graduates.*

21. *Human Geography*.—A general culture course in the newer treatment of geography. Human geography has as its object the study of the relationships between human activity and the phenomena of physical geography. It is of particular value in broadening one's ideas and in the study of such human subjects as History and Sociology. Given in alternate years. Not given in 1927-28. Monday and Friday, 6:10 p. m. Four semester-hour credits. Assistant Professor RESSER.

24. *Geography of Mediterranean Lands*.—Human activities have centered about the Mediterranean Sea since man first developed civilization. Modern geography is concerned with the reactions of man to his surroundings, and this region offers much in explanation of human activities and history. Prerequisite: At least one course in Geography. Given in alternate years. Four semester-hour credits. Monday and Friday at 5:10 p. m. Assistant Professor RESSER.

*Third Section. Primarily for Graduates.*

51. *Advanced Geography*.—Advanced courses may be arranged in this subject for qualified students. Six semester-hour credits. Assistant Professor RESSER.

## Geology and Mineralogy

*First Section. Primarily for Undergraduates.*

1A. *Mineralogy*.—An introductory course treating the subject from the cultural standpoint. The general characters of minerals, their origin, and uses as well as their occurrence, as constituents of rocks and as gems are treated mainly from the practical side. Monday and Friday at 5:10 p. m. Four semester-hour credits. Professor BASSLER and Mr. HENDERSON.

1B. *Mineralogy*.—(Prerequisite Chemistry 1.) This course is designed for students who wish to continue in Mineralogy, Economic Geology or Chemistry. A thorough introduction to systematic crystallography and mineralogy is given. Monday, Wednesday and Friday at 6:10 p. m. Six semester-hour credits. Professor BASSLER and Mr. HENDERSON.

2. *General Geology*.—Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general culture course or a preliminary course for those intending to make a specialty of geology. It includes lectures, and field work so far as hours will permit. No course is prerequisite. Text-book: Cleland's Geology. Monday and Friday, 6:10 p. m. Four semester-hour credits. Professor BASSLER and Assistant Professor RESSER.

12. *Engineering Geology*.—This course is intended primarily for civil engineers and others interested in applied geology. The work covers the general principles of geology with special emphasis upon those relating to engineering problems. The structure of rocks relative to building operations, the controlling factors of water supply, water purification and similar problems are discussed in detail. Text-book: Engineering Geology by Ries and Watson. Monday and Friday, 4:10 p. m. Four semester-hour credits. Mr. HENDERSON.

*Second Section. For Undergraduates and Graduates.*

20. *Economic Geology*.—[Geology 1 and 2 and Chemistry 1 are prerequisite for this course.] The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and minerals used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones,



limes, cements, and mineral waters. Text-book: Ries' *Economic Geology*. Given in alternate years. Monday and Friday, 5:10 p. m. Six semester-hour credits. Professor BASSLER.

22. *Paleontology*.—A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Six semester-hour credits. Professor BASSLER.

23. *Advanced Historical Geology*.—A lecture, laboratory and field course dealing with the interpretation of earth history as recorded in the physical features of the formations of the earth's crust, the physiographic forms developed upon them and the characteristic life remains present in many of them. Given in alternate years. Six semester-hour credits. Professor BASSLER.

25. *Regional Geology* (Geology 2, prerequisite).—An advanced cultural course of lectures and seminar work dealing with the topographic and geologic features of the major physiographic provinces of the world with particular stress upon North America. The relationship of the physiographic and geologic history of the various parts of the world with human development is emphasized. Six semester-hour credits. Professor BASSLER.

#### *Third Section. Primarily for Graduates.*

50. (A) *Advanced Geology*; (B) *Mineralogy*; (C) *Paleontology*.—Advanced courses in these subjects may be arranged for competent students. Six semester-hour credits. Professor BASSLER.

### GERMANIC LANGUAGES AND LITERATURE

#### *First Section. Primarily for Undergraduates.*

1. *Elementary*.—The essentials of German grammar and translation of easy prose. This course is open to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. Section A—Monday, Wednesday and Friday, 9:10 a. m.; Section B—Monday, Wednesday and Friday, 10:10 a. m.; Section C—Tuesday, Thursday and Saturday, 9:10 a. m. Six semester-hour credits. Mr. GROPP.

2. *Parallel with Course 1*. Section A—Monday, Wednesday and Friday, 5:10 p. m.; Section B—Monday, Wednesday and Friday at 6:10 p. m. Six semester-hour credits.

3. *Selections from German prose and poetry; conversation and composition*. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2, or who have satisfied the admission requirement in elementary German. Monday, Wednesday and Friday, 11:10 a. m. Six semester-hour credits. Mr. GROPP.

4. Parallel with Course 3.—Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Mr. GROPP.

6. *Scientific and Technical German*.—Designed primarily for students in the scientific and engineering courses. This course may be taken by students who have passed Course 1 or 2, or who have satisfied the admission requirement in elementary German. Monday, Wednesday and Friday, 6:10 p. m. Six semester-hour credits. Mr. GROPP.

7. *Rapid Readings in Modern German Literature*.—Advanced prose composition. Open to students who have passed Course 3 or 4 or 6 or have satisfied the admission requirement in advanced German. Monday, Wednesday and Friday, 2:10 p. m. Six semester-hour credits. Professor SEHRT.

8. Parallel with Course 7. Monday, Wednesday and Friday, 6:10 p. m. Six semester-hour credits. Professor SEHRT.

*Second Section. For Undergraduates and Graduates.*

20. *Outline of the History of German Literature and Civilization from the Teutonic Origins to the Renaissance and Reformation*, with reference to the emerging of the Germanic, Romance, and Slavic races. Anthology of the early literary monuments to the Minnesingers.—Lectures, extensive readings of the classics of the first period of bloom; advanced practice in writings, essays. Monday, Wednesday and Friday, 10:10 a. m. Six semester-hour credits. (Not given in 1927-28.) Professor SEHRT.

21. *German Literature of the Second Classic Period at its Zenith*.—Lessing's Life and Work; Goethe's work in the Natural Sciences; Schiller's drama at its zenith; Goethe's and Winckelmann's influence on German art; with special reference to the modern drama; Goethe's Faust, as a special critical and philosophical study; classical ballad and lyric poetry; renaissance of the German volkslied in the eighteenth and nineteenth centuries. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. (Not given in 1927-28.) Professor SEHRT.

22. *The Currents of German Literature from the Beginning of the Nineteenth Century Until 1870*.—Romanticism, its social and political aspects; Modern German Drama, with special emphasis on Kleist, Grillparzer, Hebbel; Lyrics and Ballads; Uhland and Heine. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. (Not given in 1927-28.) Professor SEHRT.

23. *The German Drama from Goethe to Hauptmann*.—Representative Dramas of Goethe, Schiller, Kleist, Grillparzer, Hebbel and Hauptmann will be read. Private reading. Monday, Wednesday and Friday, 10:10 a. m. Six semester-hour credits. Professor SEHRT.



24. *The German Romantic Movement*.—Class room and private readings. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. (Not given in 1927-28.) Professor SEHRT.

25. *Survey Course of German Literature*.—Readings and reports. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. Professor SEHRT.

*Third Section. Primarily for Graduates.*

50. *Seminar in the History of Middle High German Literature*, with special reference to the Epic and Lyrical Poetry in the Twelfth and Thirteenth Centuries. Introduction to scientific methods of historical and literary research in the Nibelungenlied and the Gudrunsaaga. Six semester-hour credits. Professor SEHRT.

51. *Gothic*.—Introduction to comparative Indo-European Grammar. Six semester-hour credits. Professor SEHRT.

52. *Old High German*.—The development of the German language. Six semester-hour credits. Professor SEHRT.

Only one of the foregoing two courses (51, 52) is given in any one year.

For notice of the Richard Heinzel Germanic Library, see page 11.

### HISTORY

Note:—Students may take for credit but one of the following duplicate courses in European History: 7 and 8; 11 and 12.

Students taking Course 9 or 10 in American History or Courses 7 and 8 or 11 and 12 in General European History are required to take both semesters' work before credit will be given for either semester.

Students majoring in History will be required for graduation to have covered the foundation courses in Ancient, Medieval and Modern European History, and American History; and to have had one advanced course of pre-seminar type. Departure from this requirement will be allowed only in most exceptional cases with consent of the head of the department.

A candidate for the degree of master of arts majoring in History, should have taken during his undergraduate course at least the survey courses in Ancient, Medieval and Modern European, and American History, with grades of at least C in each course. Exceptions can be made only by vote of the department.

Graduate students taking second section courses will be required to do additional work to obtain graduate credit.

*First Section. Primarily for Undergraduates.*

3. *Modern European History*.—A study of the European States under the new conditions resulting from the discovery of America and the opening of the oriental trade routes, extending through the period

of the French Revolution; texts, lectures and collateral readings. First semester. Three semester-hour credits. (Not given in 1927-1928.)

4. A continuation of the preceding through the revolutionary movements of the nineteenth century with a more detailed study of recent issues; texts, lectures, and collateral readings. Second semester. Three semester-hour credits. (Not given in 1927-28.)

5. *Ancient History*.—A study of the history of the ancient Oriental peoples, and of Greece. First semester. Tuesday, Thursday and Saturday, 9:10 a. m. Three semester-hour credits. Associate Professor KAYSER.

6. *Ancient History*.—Roman history from the beginnings to the fall of the Western Empire. Second semester. Tuesday, Thursday and Saturday, 9:10 a. m. Three semester-hour credits. Associate Professor KAYSER.

7. *General European History*.—Medieval Europe from the decline of the Roman Empire to the age of geographical exploration. Primarily for freshmen. First semester. Three semester-hour credits. Monday, Wednesday and Friday, 9:10 a. m. Assistant Professor RAGATZ.

8. *General European History*.—Modern Europe from the Age of Discovery to the Great War. Primarily for freshmen. Second semester. Three semester-hour credits. Monday, Wednesday and Friday, 9:10 a. m. Assistant Professor RAGATZ.

9. *American History*.—A general introductory course in the history of the United States. Text, lectures, assigned readings, and reports. Six semester-hour credits. Monday, Wednesday and Friday, 10:10 a. m. Professor BEMIS.

10. *American History*.—Parallel and identical with Course 9. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. Professor BEMIS.

11. *General European History*.—Parallel and identical with Course 7. First semester. Tuesday, Thursday and Saturday, 5:10 p. m. Three semester-hour credits. Assistant Professor RAGATZ.

12. *General European History*.—Parallel and identical with Course 8. Second semester. Tuesday, Thursday and Saturday, 5:10 p. m. Three semester-hour credits. Assistant Professor RAGATZ.

13. *Ancient History*.—Parallel and identical with Course 5. First semester. Tuesday, Thursday and Saturday, 5:10 p. m. Three semester-hour credits. Associate Professor KAYSER.

14. *Ancient History*.—Parallel and identical with Course 6. Second semester. Tuesday, Thursday and Saturday, 5:10 p. m. Three semester-hour credits. Associate Professor KAYSER.



*Second Section. For Undergraduates and Graduates.*

22. *American History*.—The United States, 1783-1860. Text, lectures and collateral reading. A general acquaintance with American history is presupposed. Tuesday, Thursday and Saturday, 10:10 a. m. Six semester-hour credits. Professor CHURCHILL. (Not given in 1927-28.)
23. *American History*.—The Colonial Period to 1783. Second semester. Monday, Wednesday and Friday, 3:10 p. m. Three semester-hour credits. Professor CHURCHILL. (Not given in 1927-28.)
24. *American History*.—United States history since 1860. Second semester. Monday, Wednesday and Friday, 3:10 p. m. Three semester-hour credits. Professor CHURCHILL. (Not given in 1927-28.)
25. *English History*.—A general course in English history with special attention to constitutional and political development. Texts, lectures and collateral reading. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. Professor CHURCHILL.
26. *American History*.—The History of the West. Lectures, collateral reading, and reports. A general acquaintance with American History is presupposed. Monday, Wednesday and Friday, 6:10 p. m. Six semester-hour credits. Professor CHURCHILL.
27. *Latin-American History*.—The history of colonial Latin-America, with special reference to European conditions, and of the principal Latin-American countries to the present time. Lectures, texts and reports on collateral reading. Three semester-hour credits. This course for 1927-28 is contingent upon appointment of an instructor. Inquiry should be made of Registrar.
28. *English History*.—Parallel and identical with Course 25. Tuesday, Thursday and Saturday, 11:10 a. m. Six semester-hour credits. Professor CHURCHILL.
29. *Ancient History*.—An advanced course for students who have completed Courses 5 and 6, or who otherwise satisfy the instructor of their fitness to pursue the course. Six semester-hour credits. Associate Professor KAYSER. (Not given in 1927-28.)
30. *American Constitutional History*.—A study of the origin and growth of constitutional representative government in the United States. Advised for pre-legal students. Prerequisite: History 9 or 10, except by special permission. Lectures, text, and collateral readings. Tuesday, Thursday and Saturday, 10:10 a. m. Six semester-hour credits. Professor CHURCHILL. (Not given in 1927-28.)
31. *Modern European History*.—A study of the French Revolution and subsequent reaction extending through the Revolution of 1848. First semester. Three semester-hour credits. (Not given in 1927-28.)
32. *Modern European History*.—From 1850 to the Great War. Second semester. Three semester-hour credits. (Not given in 1927-28.)

33. *Current History*.—A discussion of political questions of the day, with special reference to their origin and historical significance. Lectures throughout the year. Two semester-hour credits. (Not given in 1927-28.)

34. *Mediaeval History*.—Mediaeval institutions, with a study of the history of France and Italy from the Peace of Constance to the League of Cambray. Prerequisite: General European History. Six semester-hour credits. (Not given in 1927-28.)

36. *Diplomatic History of the United States*.—A general survey of the diplomacy of our nation, from the beginning to the present time. Lectures, text-books, readings. Monday, Wednesday and Friday, 9:10 a. m. Six semester-hour credits. Professor BEMIS.

37. *The Renaissance and the Reformation*.—A study of the beginnings of the Modern Period emphasizing the evolution of political, social, economic, religious, intellectual, and artistic ideas and institutions during the period. Prerequisite: Mediaeval and Modern History. Tuesday, Thursday and Saturday, 10:10 a. m. Six semester-hour credits. Associate Professor KAYSER.

38. *The French Revolution and the Napoleonic Era*.—A study of the important transitions—political, social, economic and intellectual—that occurred in Europe from 1715 to 1815. Prerequisite: A course in Modern History. First semester. Three semester-hour credits. Assistant Professor RAGATZ. (Not given in 1927-28.)

39. *Pre-Seminar in History and Historians*.—History: definitions, scope, methods; auxiliary sciences; theories of history; study of leading historians to determine their conceptions of history. Hours to be arranged. Six semester-hour credits. Professor CHURCHILL. (Not given in 1927-28.)

42. *English Constitutional History*.—The development of the English Constitution in its historical setting. Texts, lectures, and collateral reading. Advised for pre-legal students. Six semester-hour credits. Professor CHURCHILL.

43. *Pre-Seminar in the American Revolution*.—Intensive reading fostering individual initiative under careful supervision to develop a critical spirit and close knowledge of the historical literature and sources as well as the constructive events of this period. Hours of meeting to be arranged in common with History 36. Six semester-hour credits. Professor BEMIS.

44. *The History of France*.—Political, social, economic, and cultural development of the country from the Roman conquest to the Treaty of Versailles. Lectures and assigned reading. Prerequisite: Courses in mediaeval and modern history. Throughout the year. Tuesday, Thursday and Saturday, 9:10 a. m. Six semester-hour credits. Assistant Professor RAGATZ.



45. *The History of Modern Colonization*.—The era of discovery and exploration, colonial expansion from the fifteenth century to date with special reference to the partition of the Americas, Africa, and Asia, overseas rivalries of the European powers, problems of modern imperialism, and the institution of mandates. Prerequisite: A course in Modern European History. Texts, lectures, and special reading. Six semester-hour credits. Dr. RAGATZ. (Not given in 1927-28.)

46. *France Since 1815*.—The political, economic, social and cultural history of the country from the end of the Napoleonic regime to the present day. A continuation of Course 38, but may be taken separately. Prerequisite: History 8 or 12. Texts, lectures, and assigned reading. Second semester. Three semester-hour credits. Assistant Professor RAGATZ. (Not given in 1927-28.)

47. *Pre-Seminar in Modern European History*.—A study of the humanitarian movements (poor relief, prison reform, emancipation of colonial slaves, freeing of the serfs, factory legislation, etc.), in the West European states from the middle of the eighteenth century. Designed to afford upper classmen and history majors training in the use of standard reference works, in bibliography, and in individual research. Reading, conferences, investigation and reports. Wednesday, at 7:30 p. m. Six semester-hour credits. Assistant Professor RAGATZ.

49. *Pre-Seminar in England under the Stuarts*.—Study of the political, economic, and religious development of England in the seventeenth century, with special reference to its influence on American history. Hours to be arranged. Six semester-hour credits. Professor CHURCHILL.

#### *Third Section. Primarily for Graduates.*

54. *Seminar Work*.—The results of individual research, conducted by graduate students upon assigned topics, will be discussed at the weekly meetings of the Seminars in History.

Undergraduate students qualified by previous historical study, who desire to do intensive work with a view to gaining fuller information upon special periods or facility in the use of historical materials, may, with the approval of the instructor, be admitted to the historical seminars. Six semester-hour credits. (Not given in 1927-28.)

56. *Seminar in the History of American Diplomacy*.—A course of intensive historical research in some one period of American diplomacy. For graduate students and qualified seniors. In this course advantage will be taken of the library and archival facilities of Washington, the best sources in America for the study of the diplomatic history of the United States. A reading knowledge of French is necessary, of Spanish and German desirable. Hours to be arranged. Six semester-hour credits. Professor BEMIS.

## HOME ECONOMICS

Students majoring in Home Economics (Food and Nutrition) are required to take Chemistry 1, 2, 3 or 4; and 24 hours selected from the following courses: Home Economics 3, 4, 21, 22, 26, 27, 28, 29, 34, 35 and 50. (Certain courses in education, sociology, or chemistry may be substituted for Home Economics 26 and 27, or for 34 and 35, as occasion demands.)

*First Section. Primarily for Undergraduates.*

1. *Food Economics and Preparation*.—Study of food markets and prices. Cost of commercially prepared foods. Grading of food materials. Food values. Kitchen equipment. Principles of food preparation. Lecture, Monday, 2:10 p. m. Laboratory, Tuesday, Thursday, 2:10 to 4 p. m. Six semester-hour credits. Professor DENTON.

2. *Food Economics and Preparation*.—Parallel with Course 1. Lecture, Monday, 5:10 p. m. Laboratory, Wednesday, Friday, 5:10 to 7:00 p. m. Six semester-hour credits. Professor DENTON, Miss KILPATRICK.

3. *Experimental Cookery*.—Chemical and physical problems in technique of food preparation, and in psychology of food preferences. Prerequisite: Chemistry 3 or 4, or an equivalent, and Home Economics 1. First semester. Lecture, Monday, 10:10 a. m. Laboratory, Wednesday, Friday, 10:10 to 1:00. Three semester-hour credits. Professor DENTON.

4. *Meal Planning and Service*.—Practice in planning, marketing, preparing and serving of family meals at different prices. Second semester. Lecture, Monday, 10:10 a. m. Laboratory, Wednesday, Friday, 10:10 to 1:00. Three semester-hour credits. Professor DENTON.

13. *Clothing Selection and Construction*.—Textile fabrics, appreciation of costume design, garment making. Lecture, Monday, 3 to 4 p. m. Laboratory, Wednesday, Friday, 2 to 4. Six semester-hour credits.

*Second Section. For Graduates and Undergraduates.*

21. *Studies in Household Management*.—I. Selection and Care of Household Equipment; mechanical performance, sanitation, and cost. II. Budgets and standards of living at different income levels. First semester. Wednesday, Friday, 5:10 to 7:00 p. m. Two semester-hour credits. Professor DENTON.

22. *Methods in Teaching Foods and Nutrition*.—Prerequisites: Education 20, 29a and 34, or an equivalent. Second semester. Wednesday, Friday, 5:10 to 6:00 p. m. Two semester-hour credits. Professor DENTON.



26. *Marketing, Institutional*.—Lectures, observation, practice. Monday, Wednesday, hours to be arranged. First semester. Two semester-hour credits. (Not given in 1927-28.)

27. *Large Quantity Cookery*.—Practice in preparing food for institutional service; study of equipment for institutional kitchens. Second semester. Three semester-hour credits. (Not given in 1927-28.)

28. *Introductory Study of Nutrition and Dietetics*.—Elementary physiology of digestion and metabolism. Nutritive properties of common foods. Daily requirements in calories, protein, salts, vitamins. Planning of dietaries for adults and children; daily food costs. Tuesday and Thursday, 5:10 to 6:00 p. m. Four semester-hour credits. Professor DENTON.

29. *Laboratory Practice in Dietetics*.—To be elected simultaneously with Course 28. Open to a limited number of students. Tuesday, Thursday, 4:10 to 5:00 p. m., both semesters. Two semester-hour credits. Professor DENTON.

34. Observation of experienced home economics teachers. (Identical with Education 34.) Assistant Professor POWERS. Three semester-hour credits.

35. Practice teaching in home economics under supervision and criticism. (Identical with Education 35.) Assistant Professor POWERS. Three semester-hour credits.

#### *Third Section. Primarily for Graduates.*

50. *Problems in Home Economics*.—Seminar; for graduate students and seniors if adequately prepared. Two or more semester-hours. Professor DENTON.

51. *Research in Home Economics Education*.—Number strictly limited to a few specially prepared graduate students. Miss WHITCOMB.

### HOME ECONOMICS CURRICULA FOR DIETITIANS AND OTHER NUTRITION SPECIALISTS

Curricula for training dietitians and nutrition specialists have been prepared, in which there is adjustment between academic work and training while employed, such as hospital internship.

These courses are open to students of settled purpose and with robust health, who are genuinely interested in the scientific aspects of nutrition, food preparation, and food service. The four-year academic curriculum planned for students offering no business or institutional experience and no academic preparation beyond high school graduation, includes courses in chemistry (inorganic, organic and biochemistry); physics; general biology or zoology; human physiology; bacteriology; psychology; principles and methods of teaching nutrition; sociology; economics; principles of food preparation, marketing, experimental

cooking, meal service, institutional cooking and management, dietetics, seminar in nutrition; fundamental courses in English, history or political science, art, and modern language. This curriculum leads to the degree of B.S. in Nutrition. The certificate for hospital dietitian requires also hospital apprenticeship amounting to at least six months as student dietitian. This apprenticeship includes study of and practice in general hospital organization and routine administration, with reference to the food service department; diet therapy, teaching of dietetics to nurses, contact with patients, attendance upon diabetic and other clinics, observation in more than one hospital; individual work on some specially assigned problem to be performed in hospital residence.

The hospital practice courses will be offered during sophomore, junior and senior years, to alternate with certain academic courses, but it will not be possible to obtain both the B.S. degree and also the certificate for hospital dietitian, without the use of parts of summer vacations.

Women who are able to produce evidence of one or more years of successful business or hospital experience in food service, but who desire further training along these lines, are encouraged to avail themselves of these opportunities for academic, hospital or other institutional courses.

The degree, Bachelor of Science in Nutrition, may be taken by those desiring to fit themselves for teaching nutrition in public health work, in schools, and in other fields. Hospital service may be included in this curriculum, though not necessarily required; or field service of some other variety may be substituted.

Those desiring to prepare for laboratory research in nutrition may be excused from the hospital apprenticeship, if circumstances so dictate; but should include Physics 3 and 4 and Chemistry 10, possibly also Chemistry 20, 24, 35 and 36. However, no general curriculum can be laid down arbitrarily as preparation for such research, since each individual case must be considered on its own merits.

Special opportunities are offered to properly qualified graduate students for gaining experience in the research laboratories of the Bureau of Home Economics, U. S. Department of Agriculture. One or two applicants may be recommended to receive a monthly stipend (\$20 to \$40) in return for specified hours of service in the Bureau, and may obtain University credit for their progress reports in so far as these give evidence of research accomplished. Applications for the stipend should be made well in advance of the opening of the fall semester. This work is supervised in connection with Course 50.



## INTERNATIONAL LAW AND DIPLOMACY

(See Political Science)

## ITALIAN

(See Romance Languages)

## LATIN

(See Classical Languages)

## LIBRARY SCIENCE

*First Section. Primarily for Undergraduates.*

1. General introduction to Library Science, including practice in ordering, accessioning, filing, desk work, and devoting special attention to the fundamental principles of cataloguing. Sophomore elective: open to freshmen only by special permission of the instructor. Prerequisite: French or German. A selected group may do their practice work at the Public Library. Section A—Tuesday, Thursday and Saturday at 11:10 a. m.; Section B—Tuesday, Thursday and Saturday, at 6:10 p. m. Six semester-hour credits. Professor SCHMIDT, Miss HERBERT and Mrs. CHISHOLM.

20. *Classification*.—This course consists of an historical introduction, the study of the leading systems and their distinguishing characteristics, actual classification according to the Dewey, Cutter, and Library of Congress schemes, with accompanying practice in shelf-listing and book notation. Open only to students who have had Course 1 or its equivalent in library experience, and French and German are required of students majoring in Library Science. Monday, Wednesday and Friday at 6:10 p. m. Six semester-hour credits. Professor SCHMIDT.

30. *Administration and Reference*.—A general survey of library organization and administration, the study and use of reference books, and supervised service in the University library. Open only to students who have had Courses 1 and 20 or their equivalent in library experience. First semester. Monday, Wednesday and Friday at 5:10 p. m. Three semester-hour credits. Professor SCHMIDT.

31. *Bibliography and book-selection*, including the preparation of bibliographies in conjunction with the instructional work of the University, and other pertinent service in the Library. Open only to students who have had Course 30 or the corresponding course in the Summer School. Second semester. Monday, Wednesday and Friday at 5:10 p. m. Three semester-hour credits. Professor SCHMIDT.

41. *Children's literature and story telling*, including special training for library work with children. Hours to be arranged. Two semester-hour credits.

45. Problems in advanced cataloguing and classification; library extension, adult education, special libraries; field work. Hours to be arranged. Four semester-hour credits. Professor SCHMIDT.

### LINGUISTIC SCIENCE

#### *Third Section. Primarily for Graduates.*

50a. *General Introduction to Linguistics*.—Elementary Phonetics. The principles of change in language. The classification of languages. The purpose of this course is to furnish a general foundation for the scientific study of language. First semester. Twice a week (hours to be arranged). Professor SEHRT.

50b. *Indo-European Languages*.—General course. Application of the laws of sound change to the more important Indo-European languages. Origin and development of suffixes and inflections. Syntax. Second semester. Twice a week (hours to be arranged). Professors MICHELSON, DOYLE and SEHRT.

Attention is called to the following courses:

English 27.

Ethnology 20, 52, 53.

German 51.

Romance Philology: French 50, Spanish 50.

Semitic Languages 20, 22.

### MATHEMATICS

#### *First Section. Primarily for Undergraduates.*

3. *College Algebra; Solid Geometry; Plane Trigonometry*.—Algebra is studied during the first semester, solid geometry during February and March, and trigonometry during April and May. Section A—Monday, Wednesday and Friday, 9:10 a. m.; Section B—Monday, Wednesday and Friday, 11:10 a. m. Associate Professor HODGKINS.

4. *Algebra; Plane Trigonometry*.—Algebra is studied until April 1, and trigonometry during April and May. This course is planned for students who present only one admission unit in Algebra and for students who need a review of intermediate Algebra. Six semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Mr. BERRY.

5. *Algebra; Plane Trigonometry*.—Parallel with Course 4. Section A—Monday, Wednesday and Friday, 9:10 a. m.; Section B—Monday, Wednesday and Friday, 11:10 a. m. Six semester-hour credits. Mr. BERRY.

6. *College Algebra; Solid Geometry; Plane Trigonometry*.—Parallel with Course 3. Six semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Mr. WALLIS.

8. *College Algebra*.—Second semester. Three semester-hour credits. Mr. WALLIS.



9. *Trigonometry; Analytic Geometry*.—Trigonometry until January 1, analytic geometry for the remainder of the session. The completion of one of the Courses 3, 4, 5 or 6 is requisite for admission to this course. Monday, Wednesday and Friday, 10:10 a. m. Six semester-hour credits. Section A—For Engineering students. Professor ERWIN. Section B—For non-Engineering students. Mr. BERRY.

12. *Trigonometry; Analytic Geometry*.—Parallel with Course 9. Section A—Monday, Wednesday and Friday, 5:10 p. m.; Section B—Monday, Wednesday and Friday, 6:10 p. m.; Section C—Tuesday, Thursday and Saturday, 6:10 p. m. Six semester-hour credits. Associate Professor HODGKINS.

15. *Calculus and Analytic Geometry*.—Required course for freshmen in Architecture, and elective by the college student who has presented four entrance units in Mathematics or who has completed one of the Courses 3, 4, 5 or 6, and who does not plan to specialize in Mathematics. Tuesday, Thursday and Saturday at 5:10 p. m. Six semester-hour credits. Mr. BERRY.

18. *Differential and Integral Calculus; Elements of Differential Equations*.—Section A—Monday, Wednesday and Friday, 5:10 p. m. Section B—Tuesday, Thursday and Saturday, 5:10 p. m. Six semester-hour credits. Professor HODGKINS and Professor ERWIN.

19. *Differential and Integral Calculus; Elements of Differential Equations*.—Monday, Wednesday and Friday, 11:10 a. m. Six semester-hour credits. Professor HODGKINS.

*Second Section. For Undergraduates and Graduates.*

24. *An Elementary Treatise on the Theory of Equation*.—Tuesday, Thursday and Saturday, 10:10 a. m. First semester. Three semester-hour credits. Professor ERWIN.

25. *Hyperbolic Functions*.—Tuesday, Thursday and Saturday, 10:10 a. m. Second semester. Three semester-hour credits. Professor ERWIN.

26. *Coordinate Geometry of Three Dimensions*.—(Not given in 1927-28.) Three semester-hour credits. Professor ERWIN.

27. *Projective Geometry*.—Hours to be arranged. Three semester-hour credits. Professor ERWIN.

31. *Special Topics*.—Vector methods in the complex plane; the exponential function; hyperbolic functions. Prerequisite: Mathematics 18 or 19. Monday and Friday at 6:10 p. m. First semester. Two semester-hour credits. Mr. BERRY.

32. *Differential Equations*.—Monday and Friday at 6:10 p. m. Second semester. Two semester-hour credits. Mr. BERRY.

*Third Section. Primarily for Graduates.*

54. *Theory of Functions of a Complex Variable*.—Tuesday, Thursday and Saturday, 6:10 p. m. Six semester-hour credits. Professor ERWIN.

55. *Differential Geometry*.—Tuesday, Thursday and Saturday, 6:10 p. m. Six semester-hour credits. Professor ERWIN.

NOTE: Either Course 54 or 55 will be given after conference with students.

**MECHANICAL DRAWING***First Section. Primarily for Undergraduates.*

1. *Mechanical Drawing*.—Sketches, drawings and tracings emphasizing shop methods and utilization of standard machine parts. One period first semester, three periods second semester when taken with Descriptive Geometry. Otherwise two periods each semester. Periods are three hours each. Four semester-hour credits. Associate Professor JOHNSON, Mr. EHRMAN, Mr. LEE.

2. *Machine Drawing*.—Computations, sketches and drawings applying kinematics and empirical methods. Prerequisite: Mechanical Drawing 1. Two periods of three hours each. Both semesters. Four semester-hour credits. Associate Professor JOHNSON, Mr. LEE.

3. *Mechanical Drawing* (for students in Chemistry and Chemical Engineering).—The work is similar to that for the first half of Mechanical Drawing 1. Two three-hour periods. Second semester. Two semester-hour credits. Associate Professor JOHNSON.

8. *Descriptive Geometry*.—Complete theories of orthographic and oblique projection with practical applications and introduction to shades and shadows. Two periods of three hours each. First semester only. Two semester-hour credits. Associate Professor JOHNSON, Mr. EHRMAN.

**MECHANICAL ENGINEERING***First Section. Primarily for Undergraduates.*

1. *Mechanism*.—A course in the study of machine elements and the kinematics of machinery in which the functions and the mechanical movements are analyzed. Carefully developed problems and diagrams of changes of position and speed in mechanism are constantly used. Some attention is given to the design of gearing, and part of the second semester is devoted to the study of steam engine valve gears. Prerequisite: Mechanical Drawing 1. Four semester-hour credits. Assistant Professor RANDOLPH.

9. *Engineering Laboratory*.—A laboratory course intended for all Engineering students. This course consists of material testing and the study of the flow of fluids over wiers, and through orifices. It is



recommended that this course be taken concurrently with the second semester of Applied Mathematics 21, and with Applied Mathematics 22. Prerequisites: Physics 1, Applied Mathematics 20. Two three-hour periods, second semester. Two semester-hour credits. Assistant Professor RANDOLPH and Mr. DUTTON.

10. *Engineering Laboratory*.—A laboratory course intended primarily for Chemical, Electrical and Mechanical Engineering students. This course consists of testing and calibrating engineering instruments, and testing of power plant equipment which features steam as the prime mover. It will be necessary for each student to be present *one whole day*, December 14, 1927, when an evaporative test will be made of a steam boiler. One laboratory period a week. Credit given is based on work done under supervision in the laboratory and outside in the working up of results. Prerequisite: Mechanical Engineering 20. Two semester-hour credits. First semester. Associate Professor PLATT.

11. *Engineering Laboratory*.—An advanced laboratory course primarily for Mechanical Engineering students. This course covers the study and testing of internal combustion engines. Prerequisites: Mechanical Engineering 10, 20, 30. Two three-hour periods, second semester. Two semester-hour credits. Associate Professor PLATT.

*Second Section. For Undergraduates and Graduates.*

20. *Thermodynamics*.—The first semester is devoted to the study of the principles of thermodynamics; the gas and vapor cycles; and the properties of steam. The second semester is devoted to the study of the steam engine and the practical applications of the above principles. Prerequisites: Mathematics 18 or 19; Physics 1, and Mechanical Engineering 1. Six semester-hour credits. Associate Professor PLATT.

23. *Pumping Machinery*.—This course includes a study of the design, construction and operation of modern pumping machinery used to deliver water or other fluids under pressure when their power for operation is received from electricity, steam, compressed air or internal combustion engines. Prerequisites: Applied Mathematics 20, 21; Mechanical Engineering 1, and first semester of Mechanical Engineering 20. Two hours, second semester. Two semester-hour credits. Assistant Professor RANDOLPH.

24. *Methods of Manufacture*.—A study of modern manufacturing methods, machine tools, automatic machines and quantity production. Prerequisites: Mechanical Drawing 2, Mechanical Engineering 1, Civil Engineering 4. Two hours, first semester. Two semester-hour credits. Assistant Professor RANDOLPH.

25. *Machine Design*.—Engineering principles already acquired are applied to the design of a machine. The limitations of theoretical and empirical formulæ are studied. Prerequisites: Applied Mathematics 22, Civil Engineering 4, 22, Mechanical Engineering 1, 24. One consultation period and two three-hour drawing periods the first semester, two three-hour drawing periods the second semester. Five semester-hour credits. Associate Professor JOHNSON.

27. *Power Plants*.—This course includes a study of the design, layout, and installation of modern power plants and power plant equipment. It also includes a study of the auxiliary equipment necessary to the economic operation of the power plant, as well as that necessary to meet the present-day safety laws of the various states. Practical problems based upon the text will be assigned throughout the year. Prerequisite: Mechanical Engineering 20. Six semester-hour credits. Associate Professor PLATT.

29. *Heating and Ventilating*.—This course includes a study of the design, installation and economic operation of modern heating and ventilating systems installed in all types of buildings. Practical problems will be assigned throughout the semester which will involve all the principles studied. Prerequisite: First semester, Mechanical Engineering 20. Two hours, first semester. Two semester-hour credits. Associate Professor PLATT.

30. *Combustion Engines*.—A study of the design, construction and operation of gas, vaporized fuel, semi-diesel and diesel engines for stationary, traction, marine and aeronautical services; supplemented by a brief study of gas producers and equipment for utilizing waste industrial gases in engines. Prerequisites: M. E. 1, A. M. 20 and first semester of M. E. 20. Electrical Engineering students attend two hours first semester only. Two semester-hour credits. Mechanical Engineering students attend two hours throughout the year. Four semester-hour credits. Associate Professor JOHNSON.

31. *Steam Turbines*.—This course includes a study of the design, construction and installation of modern steam turbines, and in addition such auxiliary equipment as is necessary to their economic operation. Prerequisite: First semester, Mechanical Engineering 20. Two semester-hour credits. Assistant Professor RANDOLPH.

32. *Industrial Management*.—This course consists of the study of the forming and development of manufacturing organizations, and the interrelationships of their various departments. Process planning and routing as well as modern efficiency methods are discussed. Prerequisite: Civil Engineering 4. Two hours, first semester. Two semester-hour credits. Associate Professor PLATT.

33. *Engineering Economics*.—A course in economics intended primarily for engineering students. The problems selected for this



course feature the consideration of the first cost, operating expense, depreciation and salvage value of equipment used in the various fields of engineering. Prerequisite: Commerce 33. Two hours, second semester. Two semester-hour credits. Associate Professor PLATT.

34. *Refrigeration*.—This course includes a study of the design, construction, and installation of modern mechanical refrigeration equipment, and in addition such auxiliary equipment necessary to their economic operation. Practical problems will be assigned during the semester which will involve a knowledge of the principles of mechanical refrigeration as studied in this course. Prerequisite: First semester, Mechanical Engineering 20. Two hours, second semester. Two semester-hour credits. Associate Professor PLATT.

*Third Section. Primarily for Graduates.*

50. *Advanced Machine Design*.—Hours and credits to be arranged. Associate Professor JOHNSON.

51. *Advanced Power Plant Design*.—Hours and credits to be arranged. Associate Professor PLATT.

## METEOROLOGY

*Third Section. Primarily for Graduates.*

51. *Meteorological Physics*.—This course presupposes collegiate training in general physics. Particular attention will be given to the interpretation of meteorological phenomena in the light of modern physics; and those wishing to make this their principal study will be assisted in the selection of a suitable problem for investigation and advised in the collection of data necessary to its solution. Six semester-hour credits. Professor HUMPHREYS.

## NAUTICAL SCIENCE

*First Section. Primarily for Undergraduates.*

1. *Nautical Science*.—Marine and aerial navigation; nautical astronomy; nautical almanac; production and use of nautical charts; tides; applications of meteorology, terrestrial magnetism and oceanography to navigation and seamanship; deviation of the compass in iron and steel ships; theory and use of instruments of navigation. Four semester-hour credits. Professor FRENCH.

*Third Section. Primarily for Graduates.*

50. *Advanced Nautical Science*.—Hours and credits to be arranged. Professor FRENCH.

## PHILOSOPHY

Major: 24 semester-hours, including six semester-hours of psychology.

*Second Section. For Undergraduates and Graduates.*

21. *Principles of Philosophy*.—A course in the problems, theories and underlying principles of philosophy. First semester: Tuesday, Thursday and Saturday, 9:10 a. m. Three semester-hour credits. Professor RICHARDSON.

22. *Principles of Philosophy*.—Parallel with Course 21. Second semester: Monday, Wednesday and Friday, 5:10 p. m. Three semester-hour credits. Professor RICHARDSON.

23. *History of Philosophy*.—(a) First semester: Ancient and mediæval philosophy. (b) Second semester: Modern philosophy. Special attention is directed to the relation of philosophical conceptions to the world's progress. Six semester-hour credits. Tuesday, Thursday and Saturday, 10:10 a. m. Professor RICHARDSON.

24. *History of Philosophy*.—Parallel with Course 23. Six semester-hour credits. Monday, Wednesday and Friday, 6:10 p. m. Professor RICHARDSON.

25. *Logic*.—The field of logic; the organization of knowledge; induction and deduction; logical analysis. Special attention is paid to the historical development of inductive science. First semester: Tuesday, Thursday and Saturday, 9:10 a. m. Three semester-hour credits. Professor RUEDIGER and Miss HUNT.

26. *Logic*.—Parallel with Course 25. Second semester: Monday, Wednesday and Friday at 5:10 p. m. Three semester-hour credits. Professor RUEDIGER and Miss HUNT.

27. *Ethics*.—A consideration of the principal ethical theories from the historical and social points of view. Second semester: Tuesday, Thursday and Saturday at 9:10 a. m. Three semester-hour credits. Professor RICHARDSON.

28. *Ethics*.—Parallel with Course 27. First semester: Monday, Wednesday and Friday, 5:10 p. m. Three semester-hour credits. Professor RICHARDSON.

*Third Section. Primarily for Graduates.*

31. *Seminar*.—The topic for 1927-28 will be a study of present tendencies in philosophical thought, considered in the light of their origin. The relation of philosophical tendencies to scientific, social, and religious movements will receive attention. Wednesday, 7-9 p. m. Six semester-hour credits. Professor RICHARDSON.



## PHYSICAL EDUCATION

*First Section. Primarily for Undergraduates.*

1. Elementary marching and free gymnastic exercises; games; folk dancing; clogging. (Two periods.) Personal hygiene, presenting in a clear and concise manner the fundamental physiological laws on which all personal hygiene is based. (One period.) Monday, Wednesday, Friday, 9:10, 10:10, 11:10. Miss HOPKINS.

(This course is required of all Freshman women. The required uniform should be purchased through the office of the Physical Director.)

2. *Dancing*.—Fundamental steps and their application. Character dancing, clogging, aesthetic dancing. Elective only. Monday, Wednesday, Friday, 1:10-2:00. Miss HOPKINS.

3. *Swimming*.—Instruction for beginners, intermediates and advanced swimmers, including American Red Cross Life-saving work. Beginning March 1. Hours to be announced. Elective only. Miss HOPKINS.

## PHYSICS

*First Section. Primarily for Undergraduates.*

1. *General Physics*.—A recitation and lecture course, embracing the fundamental principles of mechanics, heat, electricity and magnetism, sound, and light. The prerequisites are: Elementary (High School) Physics, Mathematics 9 or 12, and Mathematics 18 or 19, the latter of which may be taken concurrently. This is a required course for students in the C. E., E. E., and M. E. courses. Eight semester-hour credits. Section A—Tuesday, Thursday, Friday and Saturday, 10:10 a. m. Section B—Tuesday, Thursday and Saturday, 5:10 p. m., and Saturday, 6:10 p. m. Associate Professor CHENEY.

2. *Laboratory Physics*.—Laboratory methods, accurate measurement of physical quantities, and experimental study of physical laws and apparatus. A systematic schedule of experiments is performed, and a formal report presented for each experiment. Course 2 is arranged to accompany Course 1, and may not otherwise be taken without previous preparation in Physics equivalent to Course 1. Four semester-hour credits (this takes into consideration both the time required for performance of the experiments and that required for preparation of the reports.) Monday or Tuesday or Friday, 1:10-4:10 p. m., or Tuesday or Wednesday or Friday, 7:30 to 10:30 p. m. Professor BROWN, Associate Professor CHENEY, Mr. EICHLIN, Mr. FREDERICK and Mr. LAMAR.

3. *Introductory General Physics*.—Recitations, and lectures illustrated by experimental demonstrations. Similar in scope to Course 1, but less mathematical in treatment. Planned with reference to the

needs of a student who desires an acquaintance with the facts and principles of Physical Science in their relation to the other sciences. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 11:10 a. m.; Section B—Monday, Wednesday and Friday, 6:10 p. m. Professor BROWN.

4. *Introductory Laboratory Physics*.—Course 4 is similar in character to Course 2, but with somewhat greater emphasis placed upon the study of physical principles and their applications. It is arranged to accompany Course 3, and may not otherwise be taken without previous preparation in Physics equivalent to Course 3. Monday or Tuesday or Friday, 1:10-4:10 p. m., or Tuesday or Wednesday or Friday, 7:30 to 10:30 p. m. Professor BROWN, Associate Professor CHENEY, Mr. EICHLIN, Mr. FREDERICK, and Mr. LAMAR.

6. *Elementary Physics Laboratory*.—An abridged laboratory course for students in the engineering courses who enter without credit for High School Physics. Two semester-hour credits. Hours as stated above for Course 4. Professor BROWN.

10. *Physics Problems*.—Class room and laboratory problems, similar to Course 12 below, but with less laboratory work. The prerequisites are the same as for Course 12. Six semester-hour credits. Recitations. Section A—Thursday and Saturday, 10:10 a. m.; Section B—Thursday and Saturday, 5:10 p. m. Laboratory: One two-hour laboratory period, the hour being chosen from those listed for Course 2. Associate Professor CHENEY.

12. *Physics Problems*.—Class room and laboratory problems, similar to those given in Courses 1 and 2. Prerequisites: Physics Course 3 and Mathematics as given above for Course 1. Eight semester-hour credits. Recitations: Section A—Thursday and Saturday, 10:10 a. m.; Section B—Thursday and Saturday, 5:10 p. m. Laboratory: One three-hour laboratory period, chosen from those listed under Course 2. Associate Professor CHENEY.

#### *Second Section. For Undergraduates and Graduates.*

NOTE.—Courses 20 to 23, inclusive, constitute a complete intermediate course in Physics which may be taken during their Junior and Senior years by students specializing in physics and allied sciences. They should be accompanied wherever possible by laboratory work in Course 25. Physics 1 and 2, and Mathematics 18 or 19, or the equivalents of these, are required for admission to any of these courses.

20. *Mechanics, Molecular Physics, and Heat*.—An introduction to Theoretical Mechanics, including the dynamics of wave motion, hydrodynamics, and molecular phenomena such as surface tension, elasticity, viscosity, etc. A study of Heat from both the experimental and theoretical points of view followed by an introduction to thermo-



dynamics. Six semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m. Professor BROWN.

22. *Light and Sound*.—The topic of Light constitutes the major portion of the course. Sound for the most part is not studied separately but in parallel with correlated light phenomena. Six semester-hour credits. (Not given in 1927-28.) Professor BROWN.

23. *Electricity and Magnetism*.—A course using Starling's Electricity and Magnetism as a class text and more advanced texts and the literature for reference reading. Special attention given to the electron theory and its relation to modern physical science. Six semester-hour credits. (Not given in 1927-28.) Associate Professor CHENEY.

25. *Advanced Laboratory Physics*.—An optional laboratory course in connection with Courses 20, 22, 23, and 28, also open to other students having suitable preparation. Experiments are assigned according to the line of study desired by the individual student. One or two three-hour periods per week, hours by arrangement. Four or eight semester-hour credits. Professor BROWN and Associate Professor CHENEY.

28. *Radio Principles*.—A course in the elementary theory of electrical oscillations and electro-magnetic waves, and of their applications to communication. It is strongly recommended that Course 25 be taken in connection with this course. Not given in 1927-28 unless elected by at least ten students. Four semester-hour credits. Professor BROWN.

#### *Third Section. Primarily for Graduates.*

51. *Bibliography and Survey*.—In recognition of the value to the research student of a thorough study of the literature of his chosen field as a prelude to active research, credit is offered under this course for (1) the preparation of a bibliography of that field, including brief abstracts of the more important articles, and (2) a systematic analysis of the lines of investigation along which further development is most promising, and a listing of available research problems. This course is open only to students majoring in Physics. Two semester-hour credits. Professor BROWN.

52. *Introduction to Mathematical Physics*.—Based on Haas's Introduction to Theoretical Physics, vol. I. Special attention is given to vector analysis and its applications to mechanics and electricity. Generalized coordinates, spherical harmonics, and calculus of variations also considered. Prerequisites: Mathematics 18 or 19 and at least one of the courses in Physics 20-24. All of the latter are strongly recommended. Six semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Associate Professor CHENEY.

53. *X-Rays and Radioactivity*.—A lecture and seminar course on the physical principles of X-Radiation and Radioactivity. In addition

to consideration of the general theoretical and experimental aspects some attention will be given to the practical applications. The methods of investigating crystal structure by X-Rays, and the recent work of Aston and others on Isotopes will be included. First semester. Three semester-hour credits. Tuesday, Thursday and Saturday, 5:10 p. m. Dr. HUNT.

54. *Atomic Structure and Spectrum Series.*—A lecture and seminar course on the recently developed theories of the construction of the atom and their relation to the spectra of the elements. The developments leading up to Bohr's theory will first be considered, after which attention will be principally directed to the latter theory and to the deductions which result in the field of spectroscopy. Second semester. Three semester-hour credits. Tuesday, Thursday and Saturday, 5:10 p. m. Dr. HUNT.

55. *Laboratory Physics for Graduate Students.*—This course must be preceded by two or more of Courses 21-23, inclusive, and three or more semester-hour credits in Course 25, or their equivalents. The experimental problems are somewhat longer than those of Course 25, and along more specialized lines, requiring more originality and initiative on the part of the student. This course is primarily intended to supply the laboratory experience required for active research work. Two or more semester-hour credits. Hours by arrangement. Professor BROWN, Associate Professor CHENEY, and Dr. HUNT.

57. *Statistical Mechanics and Kinetics Theory.*—This course is a study of the physical properties of gases from the standpoint of general dynamics. Viscosity, diffusion, heat conduction, Brownian movements, Van der Wall's equations and molecular aggregation and dissociation. Jeans' Dynamical Theory of Gases. A lecture and seminar course. Four semester-hour credits. Saturday, 5:10 p. m. Mr. VAN ORSTRAND.

58. *Elasticity.*—The physical properties of solids as applied to problems in geophysics. Homogeneous stress and strain. Potential energy of strained solids. Transmission of force. Propagation of earthquake waves. Love's Mathematical Theory of Elasticity. A lecture and seminar course. Four semester-hour credits. (Not given in 1927-28.) Mr. VAN ORSTRAND.

59. *Least Squares.*—Derivation of the law of errors and adjustment of observations with special reference to the determination of the constants of empirical formulas. A lecture and recitation course. Merriman's Method of Least Squares. Two semester-hour credits. First semester. Saturday, 5:10 p. m. (Not given in 1927-28.) Mr. VAN ORSTRAND.

60. *Mathematical Statistics.*—The mathematical theory of statistics with numerous practical applications. A lecture and seminar course. Elderton's Frequency Curves and Correlation, and Rietz's Handbook



of Mathematical Statistics. Two semester-hour credits. Second semester. Saturday, 5:10 p. m. (Not given in 1927-28.) Mr. VAN ORSTRAND.

61. *Conduction of Heat*.—Fourier's analysis is applied to numerous problems in the diffusion of heat and substances. Ingersoll and Zobel's Mathematical Theory of Heat Conduction. A lecture and recitation course. Second semester. Two semester-hour credits. (Not given in 1927-28.) Mr. VAN ORSTRAND.

62. *Hydrodynamics*.—A lecture and seminar course. Lamb's Hydrodynamics. Four semester-hour credits. (Not given in 1927-28.) Mr. VAN ORSTRAND.

### POLITICAL SCIENCE

Political Science 1 and 3 may be included as satisfying 6 hours of the requirement of 24 hours' credit for the major.

Course 21 has as prerequisites 1 and 3 or the equivalent, or English History or a year's course in European History since 1789.

Courses 23, 24, 24a, 25, 26, 27, 28, 29, 30 and 40 have as prerequisites 1 and 3 or the equivalent or a year's course in History or Economics 1.

#### *First Section. Primarily for Undergraduates.*

1. *Government of the United States*.—Besides an analysis of the structure of the Federal Government this course includes a study of the powers and the influence of the President, the power to make treaties, to tax, to control the railroads and the wires and to restrict immigration. The course surveys the functions of the courts and of the various commissions. The problems connected with the currency, the tariff, foreign commerce and with our colonial empire are discussed. Governmental changes in foreign countries are noted and compared with those at home. First semester. Three semester-hour credits. Section A—Monday, Wednesday and Friday, 9:10 a. m., Assistant Professor TILLEMA. Section B—Monday, Wednesday and Friday, 10:10 a. m., Assistant Professor WEST. Section C—Monday, Wednesday and Friday, 11:10 a. m., Assistant Professor TILLEMA. Section D—Monday, Wednesday and Friday, 2:10 p. m., Assistant Professor WEST. Section E—Tuesday, Thursday and Saturday, 9:10 a. m., Professor HILL. Section F—Tuesday, Thursday and Saturday, 11:10 a. m., Assistant Professor TILLEMA.

2. *Government of the United States*.—Parallel with Course 1. Three semester-hour credits. Section A—Monday, Wednesday and Friday, 6:10 p. m., Assistant Professor WEST. Section B—Monday, Wednesday and Friday, 6:10 p. m., Assistant Professor TILLEMA. Section C—Tuesday, Thursday and Saturday, 5:10 p. m., Professor HILL. Section

D—Tuesday, Thursday and Saturday, 6:10 p. m., Assistant Professor WEST.

3. *State Government.—Political Science 1 continued.*—The relation of the states to the United States, the privilege of voting, the formation of public opinion, direct legislation, police power, public utilities and executive responsibility form the chief topics. A rapid survey is made of the types of city government and of the county and township governments. Second semester. Three semester-hour credits. Section A—Monday, Wednesday and Friday, 9:10 a. m., Assistant Professor TILLEMA. Section B—Monday, Wednesday and Friday, 10:10 a. m., Assistant Professor WEST. Section C—Monday, Wednesday and Friday, 11:10 a. m., Assistant Professor TILLEMA. Section D—Monday, Wednesday and Friday, 2:10 p. m., Assistant Professor WEST. Section E—Tuesday, Thursday and Saturday, 9:10 a. m., Professor HILL. Section F—Tuesday, Thursday and Saturday, 11:10 a. m., Assistant Professor TILLEMA.

4. *State Government.*—Parallel with Course 3. Three semester-hour credits. Section A—Monday, Wednesday and Friday, 6:10 p. m., Assistant Professor WEST. Section B—Monday, Wednesday and Friday, 6:10 p. m., Assistant Professor TILLEMA. Section C—Tuesday, Thursday and Saturday, 5:10 p. m., Professor HILL. Section D—Tuesday, Thursday and Saturday, 6:10 p. m., Assistant Professor WEST.

*Second Section. For Undergraduates and Graduates.*

21. *Comparative European Governments.*—The governments and politics of England and France will receive primary consideration in this course. Some time will be given to the governments of Switzerland, Italy, Germany and Russia. First semester. Three semester-hour credits. Monday, Wednesday and Friday, 10:10 a. m., Assistant Professor TILLEMA. (This course may be taken with Course 36 the second semester.)

23. *City Government in the United States.*—A study of the various types of city government and the relations of the city to the state. Some attention will be given to European cities, and special emphasis will be placed on the government of the District of Columbia. (Not given in 1927-28.)

24. *Constitutional Law.*—This course deals primarily with the principles under which the government of the United States operates, as developed in the leading court decisions. The powers of the Federal Government and of the states and the rights and obligations of the individual will be studied. First semester. Three semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m., Assistant Professor WEST.



24a. *American Legislatures*.—A study will be made of the organization of American legislatures and of parliamentary practice, with special reference to the Congress of the United States. Comparisons will be drawn from the experience of other countries. Second semester. Three semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m., Assistant Professor WEST.

25. *Political Theory*.—The political ideas of Aristotle, Rousseau, Thomas Jefferson and others, the political theory of the American Revolution, the controversy over states' rights and the development of the idea of democracy will be surveyed. First semester. Three semester-hour credits. (Not given in 1927-28.)

26. *American Political Parties*.—The place of the party in a democracy, its organization, its activities, the character of its membership, machines and bosses and problems connected with elections will be studied. Second semester. Three semester-hour credits. (Not given in 1927-28.)

27. *International Relations*.—The leading European treaties, especially those during the last century, are studied. The purpose is to find what principles of international law and diplomacy have been evolved and applied. First semester. Three semester-hour credits. (Not given in 1927-28.)

28. *International Relations (continued)*.—Leading American treaties and the principles of diplomacy form the basis of this course. Second semester. Three semester-hour credits. (Not given in 1927-28.)

29. *International Law*.—The purpose is to acquire an understanding of the elements of this subject. A textbook, illustrative cases and problems form the basis for discussions. First semester. Three semester-hour credits. Tuesday, Thursday and Saturday, 10:10 a. m., Professor HILL.

30. *International Law (continued)*.—Second semester. Three semester-hour credits. Tuesday, Thursday and Saturday, 10:10 a. m., Professor HILL.

34. *The Near East*.—The political problems of the Balkan states and of Turkey are studied. The effect of their rivalries upon diplomacy and the conflicting interests of the Great Powers as expressed in schools, missions, mandates, concessions and markets are included. First semester. Monday, Wednesday and Friday, 5:10 p. m. Three semester-hour credits. Mr. PANARETOFF. (This course may be taken with Course 24a the second semester.)

36. *Governments and Politics of Latin America*.—The colonial policies of Spain and Portugal, the establishment of the republics and the salient features of their present constitutions and governments will be dealt with in this course. Pan-Americanism and the relations of the

Latin-American republics with the United States will also receive consideration. Second semester. Three semester-hour credits. Monday, Wednesday and Friday, 10:10 a. m., Assistant Professor TILLEMA.

40. *Jurisprudence*.—This course will deal chiefly with the views of Anglo-American writers as to the nature and source of law. Fundamental legal concepts will be discussed. The organization of courts and the judicial process will receive attention. Emphasis will be placed upon the ideas of jurists and text writers which have been most influential in the development of the law of the United States. Second semester. Three semester-hour credits. (Not given in 1927-28.)

*Third Section. Primarily for Graduates.*

53. *Seminar in Political Science*.—Reports and discussions on assigned topics. This course is for graduate students. With the written consent of the instructor, seniors may be admitted. First semester. Three semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Professor HILL.

54. *Seminar in Political Science (continued)*.—Second semester. Three semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Professor HILL.

PREVENTIVE MEDICINE AND HYGIENE

*Second Section. For Undergraduates and Graduates.*

36. *Public Health*.—Among the topics discussed are the history of preventive medicine; the causes and prevention of diseases and defects; measurements of public health; organization of health activities. Tuesday and Thursday at 4:10 p. m. First semester. Two semester-hour credits. Dr. ROGERS.

*Third Section. Primarily for Graduates.*

50. *Preventive Medicine and Hygiene*.—A reading and discussion course including demonstrations and field work, dealing with the etiology, modes of transmission, epidemiology and prevention of communicable diseases, including disinfection and quarantine; immunity, heredity and eugenics; air and air conditioning, heating and ventilation; foods and food deficiency diseases, nutritional problems; water, sewage and refuse disposal; industrial hygiene; school sanitation; personal hygiene; mental hygiene; vital statistics. Each student prepares an essay on some preventive medicine topic in which he is interested. Hours to be arranged. Six semester-hour credits. Professor HARPER.



## PSYCHOLOGY

Major: 24 semester-hours, exclusive of General Psychology.

*First Section. Primarily for Undergraduates.*

11. *Psychology*.—(a) First semester: General Psychology. (b) Second semester: The applications of psychology in the fields of business, industry, law, medicine and education. Monday, Wednesday and Friday at 10:10 a. m. Six semester-hour credits. Associate Professor Moss and Miss OMWAKE.

12. *Psychology*.—Parallel with Course 11. Monday, Wednesday and Friday at 5:10 p. m. Six semester-hour credits. Associate Professor Moss and Miss OMWAKE.

14. *Psychology*.—Parallel with Course 11. Tuesday, Thursday and Saturday at 5:10 p. m. Six semester-hour credits. Associate Professor Moss and Miss OMWAKE.

*Second Section. For Undergraduates and Graduates.*

30. *Abnormal Psychology*.—A study of the organic basis of abnormality. The various types of insanity will be considered, and some attention will be given to the use of psychoanalysis and other kinds of psychotherapy in the treatment of mental disease. First semester. Section A—Monday, Wednesday and Friday at 9:10 a. m. Section M—Monday, Wednesday and Friday at 6:10 p. m. Three semester-hour credits. Associate Professor Moss and Miss OMWAKE.

31. *Psychological Tests*.—A survey of the more common uses of psychological tests in the fields of business, industry, law and education, and of the underlying statistical methods. Second semester. Section A—Monday, Wednesday and Friday at 9:10 a. m.; Section M—Monday, Wednesday and Friday at 6:10 p. m. Three semester-hour credits. Associate Professor Moss and Miss OMWAKE.

36. *Mental Hygiene*.—Types of normal and abnormal human behavior; the relation between mental ill health and anti-social conduct; individual differences; the meaning of mental tests and examinations; mental hygiene problems of childhood and adolescence. Opportunity will be given at clinics to observe the various mental types discussed. Tuesday and Thursday at 5:10 p. m. Two semester-hour credits. Dr. RICHMOND.

40. *Social Psychology*.—A study of the principles underlying man's behavior in relation to others. First semester. Tuesday, Thursday and Saturday at 5:10 p. m. Three semester-hour credits. Mr. MIDLETON.

41. *Comparative and Animal Psychology*.—A study of the evolution of animal behavior from the lowest forms up to man. Second semester.

Tuesday, Thursday and Saturday at 5:10 p. m. Three semester-hour credits. Mr. MIDDLETON.

42. *Applied Psychology*.—The applications of psychology to the various professional and industrial fields. First semester. Saturday, 11:10-1:00. Two semester-hour credits. Mr. MIDDLETON and Miss HUNT.

43. *Educational Psychology*.—The learning process; types of learning, methods, conditions and incentives; individual differences; transfer of training. Constant reference to experimental literature. Second semester. Saturday, 11:10-1:00. Two semester-hour credits. Mr. MIDDLETON and Miss HUNT.

*Third Section. Primarily for Graduates.*

50. *Seminar in Psychology*.—Conditioning of Behavior; a study of the influence of training as manifested in changed adaptations to environment. Tuesday, 7:30-9:30 p. m. Six semester-hour credits. Associate Professor MOSS.

54. *Test Construction*.—Study of the principles underlying the construction and application of psychological and vocational tests. The class will be conducted on the laboratory method and will undertake the actual construction and standardization of tests. Prerequisite: Psychology 31 or its equivalent. Thursday, 7:30-9:30 p. m. Six semester-hour credits. Associate Professor MOSS and members of Psychology Department.

PUBLIC SPEAKING

*First Section. Primarily for Undergraduates.*

1. The purpose of this course is to set forth the principles of effective public speaking, and to develop the expressional power of the student. There will be extensive drill in the making of outlines, the writing and delivery of short speeches. Voice training, vocabulary building and general platform deportment will be studied. Practice in extemporaneous speaking during second semester. Section A—Tuesday and Thursday at 11:10 a. m.; Section B—Tuesday and Thursday at 5:10 p. m. Four semester-hour credits. Assistant Professor FARNHAM.

11. This advanced course in Public Speaking includes a survey and study of the great orators and their speeches and a detailed study and practice in special forms of modern address, literary interpretation and dramatic reading, platform deportment and extemporaneous speaking. Tuesday and Thursday at 4:10. Four semester-hour credits. Assistant Professor FARNHAM.



## ROMANCE LANGUAGES AND LITERATURES

NOTE: Courses in the Department of Romance Languages carry credit only for the completion of the entire course; no credit is given for the completion of one semester's work, nor may students change from one section to another, unless written permission is granted by the head of the department.

*Undergraduate Major in Romance Languages.*

Courses 1, 2, 3, 4, 7 and 8 in French and Spanish may not be counted toward a major. The requirements may be satisfied by completing satisfactorily 24 semester hours in one of the following ways: (a) in French, Course 5 or 6 and 18 semester hours in second or third-group courses; (b) in Spanish, Course 5 or 6 and 18 semester hours in second or third-group courses; (c) in Romance Languages, French or Spanish 5 or 6 (one course only) and either 18 semester hours in second or third-group courses in the other language, or 6 semester hours in second or third-group courses in one language and 12 semester hours in second or third-group courses in the other.

## French

*First Section. Primarily for Undergraduates.*

1. *First-Year Course.*—For beginners. Olmsted and Sirich's *Beginners' French Grammar*. Grammar, composition, drill in pronunciation, translation and reading of modern French fiction, comedy and history. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 9:10 a. m.; Section B—Tuesday, Thursday and Saturday, 9:10 a. m.; Section C—Tuesday, Thursday and Saturday, 9:10 a. m. Assistant Professors PROTZMAN and DEIBERT.

2. *First-Year Course.*—For beginners. Parallel with Course 1. Olmsted and Sirich's *Beginners' French Grammar*. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 5:10 p. m.; Section B—Monday, Wednesday and Friday, 6:10 p. m.; Section C—Tuesday, Thursday and Saturday, 5:10 p. m.; Section D—Tuesday, Thursday and Saturday, 6:10 p. m.; Section E—Monday, Wednesday and Friday at 6:10 p. m. Assistant Professors FOSTER and DEIBERT and Mr. KRAMER.

Section X. (Second semester. This section will be given if elected by a sufficient number of students. No credit will be given for Section 2X unless the student takes the work of the second semester in the Summer School of the same year.) Three semester-hour credits. Hours to be announced.

3. *Second-Year Course.*—Fraser and Squair's *French Grammar*. First text, Dumas fils, "La question d'argent" (D. C. Heath and Co.); other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elemen-

tary French. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 10:10 a. m.; Section B—Tuesday, Thursday and Saturday, 10:10 a. m.; Section C—Monday, Wednesday and Friday, 11:10 a. m.; Section D—Monday, Wednesday and Friday, 11:10 a. m. Professor HENNING, Assistant Professors FOSTER and PROTZMAN.

4. *Second-Year Course*.—Parallel with Course 3. Fraser and Squair's French Grammar. First text, Dumas fils, "La question d'argent" (D. C. Heath and Co.); other texts to be announced. Six semester-hour credits. Section A—Tuesday, Thursday and Saturday, 5:10 p. m.; Section B—Tuesday, Thursday and Saturday, 6:10 p. m.; Section C—Tuesday, Thursday and Saturday, 5:10 p. m.; Section D—Tuesday, Thursday and Saturday, 6:10 p. m. Assistant Professor DEIBERT, Messrs. CULLOM and KRAMER.

5. *Survey of Modern French Literature*.—(Seventeenth, eighteenth and nineteenth centuries.) Translation, collateral reading and conferences thereon, lectures on literature. Open to students who have passed in French 3 or 4, or have fulfilled the admission requirements in Advanced French. Six semester-hour credits. Monday, Wednesday and Friday, 4:10 p. m. Professor HENNING and Assistant Professor FOSTER.

6. *Survey of Modern French Literature*.—Parallel with Course 5. Six semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Assistant Professor PROTZMAN.

7. *Composition and Conversation (Elementary Course)*.—Open to students who have passed in Course 1 or 2, or have fulfilled the admission requirements in Elementary French. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 5:10 p. m.; Section B—Tuesday, Thursday and Saturday, 5:10 p. m. M. BENÉTEAU. (Each section will be given only if elected by at least ten students at the beginning of the year.)

8. *Composition and Conversation (Advanced Course)*.—Open to students who have passed in Course 7, or otherwise satisfy the instructor of their fitness to take it. Six semester-hour credits. Monday, Wednesday and Friday, 6:10 p. m. M. BENÉTEAU. (This course will be given only if elected by at least ten students at the beginning of the year).

Note: Courses 7 and 8 may not be taken in the same year. Neither 7 nor 8 may be substituted for Courses 1 or 2, 3 or 4, in satisfying the curriculum requirements for two years of modern languages.

#### *Second Section. For Undergraduates and Graduates.*

(Courses in this group are open to students who have passed in Courses 5 or 6, or otherwise satisfy the instructor of their fitness to take them.)



21. *Literature of the Seventeenth Century*.—History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Boileau, Corneille, Descartes, Fénelon, Mme. de La Fayette, La Bruyère, La Fontaine, La Rochefoucauld, Malherbe, Molière, Racine, Saint-Evremond, Saint-Simon, Mme. de Sévigné, etc. Translation, collateral reading and reports thereon, lectures on history and literature. Six semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m. Professor HENNING.

23. *Literature of the Eighteenth Century*.—History, philosophy, criticism, letters, drama, fiction, poetry, the "salons," the idea of progress, the idea of science. Bayle, Fontenelle, Abbé de Saint-Pierre, Marquise de Lambert, Mme. de Tencin, Montesquieu, Voltaire, J.-J. Rousseau, Diderot, the Encyclopedists, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Six semester-hour credits. Monday, Wednesday and Friday, 4:10 p. m. (Not given in 1927-28.) Assistant Professor DEIBERT.

26. *Literature from 1750 to 1850; the Romantic Movement*.—History, criticism, travels, fiction, drama, lyric poetry. Rousseau, Bernardin de Saint-Pierre, Balzac, Baudelaire, Chateaubriand, Gautier, Hugo, Lamartine, Michelet, Musset, Sainte-Beuve, George Sand, Mme. de Staël, Thierry, Vigny, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Six semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m. Professor HENNING. (Not given in 1927-28.)

28. *Literature from 1850 to the Present*.—History, philosophy, criticism, fiction, drama, lyric poetry. Augier, Brunetière, Dauder, Dumas fils, Flaubert, France, Heredia, Hervieu, Leconte de Lisle, Lemaitre, Loti, Maeterlinck, Maupassant, Mérimée, Renan, Rostand, Sully Prudhomme, Taine, Verlaine, etc. Six semester-hour credits. Monday, Wednesday and Friday, 11:10 a. m. Professor HENNING.

40. *Modern Fiction*.—The French novel and short story, from the beginning of the nineteenth century to the present. Translation, collateral reading, lectures. Six semester-hour credits. Monday, Wednesday and Friday, 11:10 a. m. Professor HENNING. (Not given in 1927-28.)

### • Third Section. Primarily for Graduates.

(All graduate students in French are expected to report to Assistant Professor Jones at the opening of the college year for brief instruction in the use of books and libraries, the compilation and use of bibliographies, etc.)

50. *Old French*.—Philology and literature. *La Chanson de Roland*, the works of Chrétien de Troyes, etc. Phonology and morphology of Old French, with an outline of its development through Vulgar Latin. Survey of French Literature to the end of the thirteenth century. Some

knowledge of Latin is essential. Six semester-hour credits. Monday, Wednesday and Friday, 4:10 p. m. Professor DOYLE.

56. Opportunities are afforded to competent graduate students, under the guidance of members of the Department of Romance Languages, for original investigation and the study of special topics, linguistic or literary, in the Old French period, the Seventeenth Century, the Eighteenth Century, the Nineteenth Century, and Contemporary Literature. Meetings as arranged. Consult Professor HENNING.

#### Spanish

##### *First Section. Primarily for Undergraduates.*

1. *First-Year Course.*—For beginners. Hills and Ford's First Spanish Course. Grammar, written and oral composition, drill in pronunciation, translation of modern Spanish fiction, comedy and history. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 9:10 a. m.; Section B—Tuesday, Thursday and Saturday, 9:10 a. m.; Section C—Monday, Wednesday and Friday, 10:10 a. m.; Section D—Tuesday, Thursday and Saturday, 11:10 a. m. Assistant Professors FOSTER and DEIBERT and Mr. CORLISS.

2. *First-Year Course.*—For beginners. Parallel with Course 1. Hills and Ford's First Spanish Course. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 5:10 p. m.; Section B—Monday, Wednesday and Friday, 6:10 p. m.; Section C—Tuesday, Thursday and Saturday, 5:10 p. m.; Section D—Tuesday, Thursday and Saturday, 6:10 p. m. Assistant Professors JONES and FOSTER, Mr. CORLISS.

Section X: (Second semester. This section will be given if elected by a sufficient number of students.) No credit will be given for Section 2X unless the student takes the work of the second semester in the Summer School of the same year. Hours to be announced.

3. *Second-Year Course.*—Review of grammar, composition, translation of modern Spanish prose and poetry, collateral reading. First text, Benavente, "Tres Comedias" (Heath). Open to students who have passed in Course 1 or 2, or have fulfilled the admission requirements in Elementary Spanish, or otherwise satisfy the instructor of their fitness to take the course. Six semester-hour credits. Section A—Monday, Wednesday and Friday, 10:10 a. m.; Section B—Tuesday, Thursday and Saturday, 10:10 a. m.; Section C—Monday, Wednesday and Friday, 10:10 a. m. Professor DOYLE, Assistant Professors PROTZMAN and DEIBERT.

4. *Second-Year Course.*—Parallel with Course 3. Six semester-hour credits. First text, Benavente, "Tres Comedias" (Heath). Section A—Monday, Wednesday and Friday, 5:10 p. m.; Section B—Tuesday, Thursday and Saturday, 5:10 p. m.; Section C—Tuesday, Thursday



and Saturday, 5.10 p. m. Assistant Professor PROTZMAN, MR. CORLISS.

5. *General Survey of Modern Spanish Literature*.—Seventeenth, eighteenth and nineteenth centuries; contemporary writers. Translation of representative works of fiction, drama and poetry. Lectures on the history of Spanish Literature. Outside reading and reports. Open to students who have passed in Spanish 3 or 4, or who otherwise satisfy the instructor of their fitness to take the course. Six semester-hour credits. Monday, Wednesday and Friday, 11:10 a. m. Professor DOYLE and Mr. CORLISS.

6. *Parallel with Spanish 5*.—Six semester-hour credits. Monday, Wednesday and Friday, 5.10 p. m. Assistant Professor JONES.

7. *Conversation and Composition (Elementary Course)*.—Open to students who have passed in Spanish 1 or 2, or have fulfilled the admission requirements in Elementary Spanish. Section A—Monday, Wednesday and Friday, 5.10 p. m.; Section B—Tuesday, Thursday and Saturday, 5.10 p. m. Six semester-hour credits. Mr. VÁZQUEZ.

(Each section will be given only if elected by at least ten students at the beginning of the year.)

8. *Conversation and Composition (Advanced Course)*.—Open to students who have passed in Spanish 7, or otherwise satisfy the instructor of their fitness to take it. Six semester-hour credits. Monday, Wednesday and Friday, 6.10 p. m. Mr. VÁZQUEZ. (This course will be given only if elected by at least ten students at the beginning of the year.)

NOTE: Courses 7 and 8 may not be taken in the same year. Neither 7 nor 8 may be substituted for Courses 1 or 2, 3 or 4, in satisfying the curriculum requirements for two years of modern languages.

#### *Second Section. For Undergraduates and Graduates.*

(Courses in this group are open to students who have passed in Course 5 or 6 or otherwise satisfy the instructor of their fitness to take them.)

22. *Spanish Literature of the Sixteenth and Seventeenth Centuries*.—The Golden Age. Cervantes, Lope de Vega, Calderón. The classic Spanish drama. Origins and rise of the novel. The ballad. Lyric poetry. References to the influence of Spanish literature upon French and English. Translation, reports on outside reading, lectures. A large amount of collateral reading will be required. Monday, Wednesday and Friday, 5:10 p. m. Six semester-hour credits. Professor DOYLE.

24. *Spanish Drama from the Eighteenth Century to the Present*.—The French School: Moratín, etc. Ramón de la Cruz. Romantic and historical drama. The comedy of manners. Psychological and social drama. Contemporary dramatists. A large amount of collateral read-

ing will be required. Translation, reports on outside reading, lectures. Six semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m. Professor DOYLE. (Not given in 1927-28.)

26. *The Spanish Novel from the Eighteenth Century to the Present.*—Romantic and historical novelists; the *costumbristas*; the novel of manners; the regionalists; contemporary novelists. A large amount of collateral reading will be required. Translation, reports on outside reading, lectures. Six semester-hour credits. Monday, Wednesday and Friday, 5:10 p. m. Professor DOYLE. (Not given in 1927-28.)

28. *Spanish-American Literature in Prose and Verse.*—Study of leading critics, essayists, historians, novelists, poets; Rodó, Hostos Blanco-Fombona, Blest Gana, Olmedo, Bello, Heredia, Darío, Chocano, Valencia, Nervo, etc. Lectures, translation, reports on outside reading. A large amount of collateral reading will be required. Six semester-hour credits. Tuesday, Thursday and Saturday, 6:10 p. m. Assistant Professor JONES.

### *Third Section. Primarily for Graduates.*

(All graduate students in Spanish are expected to report to Assistant Professor JONES at the opening of the college year for brief instruction in the use of books and libraries, the compilation and use of bibliographies, etc.)

50. *Old Spanish.*—Philology and Literature. *Poema del Cid*, *Libro de Buen Amor*, *Conde Lucanor*, etc. Menéndez Pidal's "Manual elemental de gramática histórica española" and Ford's "Old Spanish Readings" (Ginn). Some knowledge of Latin is essential. Six semester-hour credits. Monday, Wednesday and Friday at 5.10 p. m. Professor DOYLE. (Not given in 1927-28.)

56. *Courses of Special Study.*—Opportunities are afforded to competent graduate students, under the guidance of members of the Department of Romance Languages, for original investigation and the study of special topics, linguistic or literary, in the Old Spanish period, the Renaissance, the Golden Age, the Eighteenth and Nineteenth Centuries, Contemporary Literature, and the Literature of Spanish-America. Meetings as arranged. Consult Professor DOYLE.

### Italian

#### *First Section. Primarily for Undergraduates.*

1. *First-Year Course.*—For beginners. Russo's Italian Grammar. Grammar, composition, drill in pronunciation, translation and reading of modern Italian fiction, comedy, history, and descriptive matter. Six semester-hour credits. Tuesday, Thursday and Saturday, 10:10 a. m. Mr. BEALL. (This course will be given only if elected by at least twelve students at the beginning of the year.)



3. *Second-Year Course*.—Phelps's Italian Grammar. First text, Giacosa, "Tristi Amori." Other texts to be announced. Open to students who have passed in first-year Italian or otherwise satisfy the instructor of their fitness to take the course. Six semester-hour credits. Tuesday, Thursday and Saturday, 11:10 a. m. Professor DOYLE. (This course will be given only if elected by at least eight students at the beginning of the year.)

### SEMITIC LANGUAGES AND LITERATURE

#### *Second Section. For Graduates and Undergraduates.*

20. *Elementary Hebrew*.—Hebrew vocabulary and grammar; reading, translations of simple passages and briefer exercises. This course is open to beginners. Two hours a week. Four semester-hour credits.

22. *Advanced Hebrew*.—An intensive study of Hebrew grammar and its relation to Semitics in general. Comparative Semitic philology will be pursued. Translations of longer passages of prose and poetry. Readings and selections from the Old Testament and post-biblical literature. Two hours a week. Four semester-hour credits. Professor SCHAPIRO.

#### *Third Section. Primarily for Graduates.*

50. Study of the history and development of Hebrew and cognate literatures. Certain epochs of Jewish History. A review of Modern Hebrew literature with particular emphasis on productions of the Haskala period. Special topics in addition to be selected by candidates. Six semester-hour credits. Professor SCHAPIRO.

### SOCIOLOGY

(See Economics.)

### STATISTICS

(See Economics.)

### ZOOLOGY

#### *First Section. Primarily for Undergraduates.*

1. *Systematic Zoology*.—Invertebrates. This includes lectures and laboratory work. The lectures cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with zoological characters, classificatory laws, and the general principles of biology and evolution.

Lecture, Wednesday, at 5.10 p. m.; laboratory, Tuesday and Thursday, 2-4 p. m., and Monday and Friday, 5.10-7 p. m. Text, Parker and Haswell, *A Text-book of Zoology*, Vol I, The MacMillan Co. Six semester-hour credits. (No credit for half-year work.) Professor BARTSCH, Mrs. BOWMAN.

2. *Systematic Zoology*.—Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrates, and correlated with these is the study and dissection of typical specimens of each group. Prerequisite: Zoology I.

Lecture, Monday, 6:10 p. m.; laboratory, Wednesday and Friday, 5:10-7 p. m. Text, Parker and Haswell, *A Text-book of Zoology*, Vol. II, The MacMillan Co. Six semester-hour credits. (No credit for half-year work.) Professor BARTSCH, Mr. McCLOSKEY.

3. *Pre-Medical Zoology*.—An abridged course of Zoology I and II covering the semester-hour requirement of the American Medical Association. In this course the same sequence as that in the other two courses is followed, but the types selected for discussion and dissection are such as will prove of especial importance to the medical student. Students, however, are urged whenever possible to take the more extended courses.

*First Semester.* Lecture, Monday and Friday, 5:10 p. m. Laboratory, Tuesday and Thursday, 9-11 a. m.; Wednesday and Friday, 3-5 p. m.; Monday and Wednesday, 6-8 p. m.

*Second Semester.* Lecture, Friday, 5:10 p. m. Laboratory, Tuesday, Thursday and Saturday, 9:10-11:00 a. m.; Monday, Wednesday and Friday, 3-5 p. m.; Monday, Wednesday, 5:10 to 7; and Friday, 6 to 8 p. m. Text, Parker and Haswell, *A Text-book of Zoology*, Vols. I and II, The MacMillan Co., and Davison *Mammalian Anatomy*. Eight semester-hour credits. (No credit for half-year work.) Professor BARTSCH, Mrs. BOWMAN, Mr. McCLOSKEY, Mrs. BEIJ.

*Second Section. For Undergraduates and Graduates.*

23. *Ornithology*.—A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying birds. The splendid District of Columbia exhibit in the U. S. National Museum will be consulted in this work. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits, calls and songs of our native birds. Lecture, Friday, 6:10 p. m.; laboratory, one two-hour period, at students' convenience. Four semester-hour credits. Students may enroll for this course in any semester. Text, Frank M. Chapman, *Birds of Eastern North America*. Professor BARTSCH.

24. *General Entomology*.—This course embraces lectures on the characteristics of the various orders and more important families of insects, as well as the habits of representative species. Each lecture will be supplemented by two laboratory periods which will be devoted



to a study of the structure of typical forms and practice in identification.

*First Semester.* Lecture, Wednesday, 6:10 p. m.; laboratory, Monday and Friday, 5:10-7 p. m. Text, Comstock, Introduction to Entomology, Comstock Pubs. Co. Prerequisite: Zoology I and II or III. Mr. KNIGHT.

25. *Economic Entomology.*—This course embraces lectures discussing the life histories of such insects as are of economic importance, in so far as they influence agricultural pursuits or sanitary problems. Methods of control will also be discussed. The laboratory work will consist of an actual study of the principal pests and insecticidal agencies.

*Second Semester.* Lecture, Wednesday, 6:10 p. m. Laboratory, Monday and Friday, 5:10-7 p. m. Prerequisite: Zoology 24. Mr. KNIGHT.

26. *An Elementary Course in Histology and Physiology*, intended to acquaint the student with the minute structure and function of the organs of the animal body. Text in Histology: any of the following, Piersol, Jordon, Radach, or Bailey; in Physiology: "Elementary Physiology," by Burton-Opitz. Monday, Wednesday and Friday, 6:10-8:00. Six semester-hour credits. Professor BARTSCH and Mrs. GALTSOFF.

*Third Section. Primarily for Graduates.*

50. Students who have the necessary basic training may arrange to undertake advanced work or individual research with Professor BARTSCH. Such courses will cover six semester-hour credits.

## GEORGE WASHINGTON UNIVERSITY

### COLLEGE OF PHARMACY

WILLIAM MATHER LEWIS, A.M., LL.D. .... *President of the University*  
 LOUIS F. BRADLEY, Phar. D. .... *Dean of the College of Pharmacy*

#### OFFICERS OF THE NATIONAL COLLEGE OF PHARMACY

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 SAMUEL L. HILTON, Phar. D. .... *Chairman of the College*  
 LEWIS FLEMER, Phar. D. .... *Vice Chairman of the College*  
 FRED B. CAMPBELL, Phar. D. .... *Secretary of the College*  
 HERBERT C. EASTERDAY, Phar. D. .... *Treasurer of the College*

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 CHARLES S. WALTER  
 CONRAD H. WEISS  
 FRANK P. WELLER  
 EDWARD W. WHITESIDE  
 HARVEY W. WILEY (Honorary)

## PHARMACEUTICAL COURSE

<i>Subject</i>	<i>Year</i>
Pharmacy.....	First, second and third
Chemistry.....	First, second and third
Botany.....	One year
English.....	One year
Pharmaceutical Arithmetic.....	One year
Pharmacographia.....	One year
Physics.....	Three-fourths year
Pharmaceutical Latin.....	One year
Materia Medica.....	One year
First Aid.....	One year
Physiology.....	One year
Commercial Pharmacy.....	One year
Pharmaceutical Jurisprudence.....	One year
Bacteriology.....	One year

## ACADEMIC YEAR

The *Academic Year* begins on Wednesday, September 21. It is divided into two half-years of four months each.

The term of study for the degree of Graduate in Pharmacy consists of three years of thirty-two weeks each, exclusive of vacations and holidays. The next session, the twenty-sixth, begins September 21, 1927, and ends June 13, 1928.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

The minimum requirements for admission are fifteen units of secondary school work made up as follows:

### SECONDARY SCHOOL UNITS

Credit may be granted for the subjects shown in the following list and for any other subjects counted by a standard accredited high school as a part of the requirements for its diploma, provided that at least eleven units must be offered in groups I-V:

<i>Subjects</i>	<i>Units* Required</i>	
Group I, English—		
Literature and composition.....	3-4	3
Group II, Foreign Languages—		
Latin .....	1-4	
Greek .....	1-3	
French or German.....	1-4	2†
Other foreign languages.....	1-4	
Group III, Mathematics—		
Elementary algebra .....	1	1
Advanced algebra .....	½-1	
Plane geometry .....	1	1
Solid geometry .....	½	
Trigonometry .....	½	
Group IV, History—		
Ancient history .....	½-1	1
Medieval and modern history.....	½-1	
English history .....	½-1	
American history .....	½-1	
Civil government .....	½-1	
Group V, Science—		
Botany .....	½-1	
Zoology .....	½-1	
Chemistry .....	1	
Physics .....	1	
Physiography .....	¼-1	

\* A unit is the credit value of at least thirty-six weeks' work of four or five recitation periods per week, each period to be not less than 45 minutes. A point is a subject pursued through one-half the above time. Two points may be considered the equivalent of one unit.

† Both of the required units of foreign languages must be of the same language, but the two units may be presented in any one of the languages specified.



<i>Subjects</i>	<i>Units Required</i>
<i>Group V, Science—Continued.</i>	
Physiology .....	$\frac{1}{2}$ -1
Astronomy .....	$\frac{1}{2}$
Geology .....	$\frac{1}{2}$ -1
<i>Group VI, Miscellaneous—</i>	
Agriculture .....	1-2
Bookkeeping .....	$\frac{1}{2}$ -1
Business law .....	$\frac{1}{2}$ -1
Commercial geography .....	$\frac{1}{2}$ -1
Domestic science .....	1-2
Drawing, freehand and mechanical.....	$\frac{1}{2}$ -2
Economics and economic history.....	$\frac{1}{2}$ -1
Manual training .....	1-2
Music: Appreciation and harmony.....	1-2

#### AIM OF THE COURSE

All work offered in the College of Pharmacy meets the highest requirements of pharmaceutical instruction. Its aim is to train pharmacists so as to enable them to intelligently and efficiently perform any work that may be required from a pharmacist with scientific training. The equipment, methods of instruction and courses are arranged to attain the object of its aim, and the close association of the College of Pharmacy with the George Washington University by which students in pharmacy share all the advantages and enjoy the spirit of a great educational establishment is in itself an incentive to prepare themselves to meet the requirements of the trend of pharmaceutical education.

Instruction is given during the day.

The degree of Ph.G. will be conferred on students who have attended the required course of instruction and pass satisfactory examinations in the same.

#### CLASSIFICATION AND ADVANCEMENT OF STUDENTS

Students are divided into three classes, according to their proficiency and the time spent, viz: first year, second year, third year.

*Proficiency* in all subjects is marked on a scale of 100. The passing grade in each subject is 75.

*Examinations* are held at the end of the course in each subject. Students who fail to appear at a regular examination will not be examined until the next regular examination except by special per-

mission of the Advisory Committee of the Faculty. For special examinations a fee of \$5 will be charged for each subject.

To be *advanced*, a student must not fail in more than one major or two minor subjects. It is recommended that students advanced conditioned remove their conditions in the September examinations. Students advanced conditioned must remove all such conditions before they can be again advanced.

Students who fail in more than one major or two minor subjects, will not be given re-examinations in the September examinations except by special permission of the Advisory Committee of the Faculty.

Students who fail of graduation because of deficiency in but one major or two minors, if approved by the Advisory Committee of the Faculty, may be re-examined in the September examinations for graduation. Students who are allowed this privilege will be required to take such examinations as the Advisory Committee may direct.

Students who fail of advancement or graduation will be required to repeat a year, taking such subjects as may be directed by the Advisory Committee of the Faculty.

Students who fail of advancement after repeating any one of the first three years or who fail of graduation after repeating the final year, will not be permitted to maintain their connection with the school.

#### REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Ph.G. must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other requirements herein set forth. He must have attended at least 80 per cent of all required instruction during three sessions of thirty-two weeks each in three separate years; must have satisfactorily completed all his courses and passed all his examinations. He must be present at the time specified for the final examinations, and also at Commencement. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges who desire a degree from this College must spend one year in residence at this school.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction."



### MEMBER OF AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY

The College of Pharmacy holds membership in the American Association of Colleges of Pharmacy. The object of the conference is to promote the interests of pharmaceutical education in all institutions holding membership in the same and to maintain standard requirements for entrance and graduation.

### METHOD OF TEACHING

The method of teaching in use, namely, the laboratory method, is admittedly the best method of instruction. Besides lectures and recitations, the subjects themselves are studied, books being used as an aid and not as an end in themselves. The faculty is composed of men who are specialists in their respective lines and consequently are enabled to give the student the benefit of their experience.

### RECITATION CLASSES

Recitation classes are held in connection with each course in order to provide systematic drill in the subjects under competent instructors. These classes have been found to be one of the most effective auxiliaries to study, as part of a well-planned system of reviewing the subjects taught. They are intended to give the student an additional opportunity for testing his progress throughout the year, and for fixing firmly in mind the facts acquired from the lectures and laboratory work. Students in Pharmacy have the advantage of instruction in all departments of the University: Arts and Sciences, the Medical School and the School of Pharmacy.

### THE HENRY E. KALUSOWSKI SCHOLARSHIP

The District of Columbia Retail Druggists' Association offers a yearly scholarship the value of which is equal to the tuition for the three-year course leading to the degree of Ph.G. This scholarship is offered to graduates of a four-year High School course in any High School in the District of Columbia, and is known as the Henry E. Kalusowski Scholarship in memory of Dr. Henry E. Kalusowski, for many years Dean of the College of Pharmacy.

## DESCRIPTION OF SUBJECTS

## FIRST YEAR

## PHARMACY

W. PAUL BRIGGS, Ph.G.

Lectures and quizzes embracing a complete study of the principles of manufacturing Pharmacy as prescribed in the U. S. Pharmacopœia, and National Formulary.

The lectures cover a history of Pharmacy and the Pharmacopœia and the legal status of the official texts.

The manufacture, preservation, use and standardization of the U. S. P. and N. F. preparations are studied in detail.

*Laboratory.*—This course includes the manufacture of the more important and typical official preparations. Instruction is given in laboratory technique and accuracy. 256 hours.

## BOTANY

ROBERT F. GRIGGS, Ph.D.

*Professor of Botany*

This course aims to present in an orderly fashion such a knowledge of the vegetable kingdom as everyone needs to enable him to understand plants, their mode of life and the use to which they are put. A study of the living plant as a working mechanism is followed by a brief survey of the different kinds of plants and practice in naming the common plant. The bearing of Botany on materia medica is made prominent by introducing lists of official flowers, seeds, etc., in their appropriate places, and by directing particular attention to such points of plant structure and function as are necessary for a proper understanding of drugs. 128 hours.

## CHEMISTRY

HIRAM C. McNEIL, Ph.D.

*Professor of Chemistry*

General Chemistry, lectures and laboratory work. 256 hours if student has had High School Chemistry, or if not, 288 hours.

## ENGLISH

WILLIAM ALLEN WILBUR, A.M., Litt.D.

*Professor of English*

English Rhetoric. A study of the principles of self expression through language with practice in composition. 92 hours.



**PHARMACEUTICAL ARITHMETIC**

JACOB WALDMAN, Phar.D.

Explanation and problems. Explanations and problems covering weights and measures; relationship of systems; specific gravity; specific volume; reducing and enlarging formulas; proportion; concentration and dilution; alligation; percentage; percentage solutions; saturated solutions; thermometric scales; mensuration of volumes, etc. Finally a large number of problems based on chemical reactions are given. 32 hours.

**PHARMACOGRAPHIA**

Lecture course describing first, official drugs indigenous to the United States, and subsequently the habitat and methods of exporting other official drugs. 32 hours.

**SECOND YEAR****PHARMACY**

W. PAUL BRIGGS, Ph.G.

Lectures on the compounding and dispensing of prescriptions followed by a comprehensive study of the inorganic and organic chemicals of the U. S. P. and N. F., including their manufacture, use, dose and tests for their purity and identity.

*Laboratory.*—The work consists of a study of the compounding of typical and incompatible prescriptions. Practice is given in their translation. The principles of "Secundum Artum" are stressed to develop Pharmaceutical perfection. 256 hours.

**CHEMISTRY**

Analytical Chemistry. First semester—Quantitative Analysis.

An introductory course in the principles, technique and theory of quantitative analysis. The laboratory work includes determinations of the more common elements.

Second semester.—Qualitative Analysis.

A course in the systematic analysis of inorganic materials, including the detection of the more common elements. The theory of the procedures is stressed.

**PHYSICS**

General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experimental demonstrations. 48 hours.

**PHARMACEUTICAL LATIN**

JACOB WALDMAN, Phar.D.

The Latin pertaining to the science and art of Pharmacy. Only such essentials of inflection and syntax can be taught as will serve

the practical purpose of enabling the student to read prescriptions with ease and intelligence. 32 hours.

#### MATERIA MEDICA

A. F. GORSUCH, Ph.G.

In these lectures the official names, synonyms, origin, history, habitat, constituents, actions, uses and doses of drugs and official preparations, and the medical actions of these will be noted, so far as is necessary for an intelligent understanding of these subjects. Incidentally much valuable information will be given upon the subject of geographical materia medica. Special attention will be devoted to the toxicological symptoms and antidotal treatment of the actively poisonous drugs. 180 hours.

#### THIRD YEAR

##### PHARMACY

W. PAUL BRIGGS, Ph.G.

Detailed lectures and quizzes on volatile and fixed oils and fats, alkaloids and other active principles, and animal substances. Consideration is given their source, purification, standardization, use and dose.

Laboratory: This work consists of the assaying of tinctures, extracts, etc., manufactured in first year. Estimation of volatile oils and fats for their iodine number, saponification value, etc., and the preparation of sterile solutions and ampules. 256 hours.

#### CHEMISTRY

*Organic Chemistry.* The chemistry of the compounds of carbon. Lectures and laboratory work. 256 hours.

#### FIRST AID

A. MAGRUDER MACDONALD, M.D.

This course of lectures is designed to acquaint the Pharmacy student with first aid materials, their care and uses and equip him to perform first aid treatment. 30 hours.

#### PHYSIOLOGY

F. B. COGSWELL, M.D.

The chief facts of anatomy and the general principles of physiology and hygiene. 60 hours.

#### COMMERCIAL PHARMACY

A. V. BURDINE, Phar.D.

This is a practical course devoted to the business side and economics of Pharmacy and the trade methods employed. This work includes methods of buying and selling, discounts, advertising, displays, side lines, inventories store management and business correspondence. 60 hours.



**PHARMACEUTICAL JURISPRUDENCE**

EUGENE C. BROKMEYER, Counsel, N.A.R.D.

This course is planned to familiarize the student with the general provisions of the State and Federal laws governing the practice of Pharmacy. Local ordinances and regulations are also studied. Special attention is given to the Prohibition, Narcotic, Poison, and Federal and State Pure Food and Drug Laws. Also commercial and business law. 30 hours.

**BACTERIOLOGY**

The didactic portion of the course in Bacteriology consists of a series of lectures in which the entire field of bacteriology, including immunology in its application to human medicine and welfare, is considered. The first few lectures are necessarily limited to the consideration of the general principles of the science after which the pathogenic microorganisms are discussed in a systematic sequence, with the theories of immunity treated of in appropriate places. 60 hours.

**TEXTBOOKS**

The following textbooks are used in the course in Pharmacy: U. S. Pharmacopœia; Practice of Pharmacy, Remington; Treatise on Pharmacy, Caspari.

**STUDENT ACTIVITIES**

Student activities in the University are carried on under the direction of a Faculty Committee, acting under resolutions adopted by the Board of Trustees. Student Activities, including athletics, debating, and the various student publications, are supported by a fee paid by all students in the University. This fee not only admits the subscriber to athletic contests and entitles him to copies of the publications, but also provides for free medical attention and hospital service under certain conditions. This fee is payable like other University fees, at the office of the Treasurer of the University.

**FEES AND CONTINGENT EXPENSES**

Registration fee, each year.....	\$2
Reinstatement fee.....	2
Tuition, each year.....	210
Graduation fee .....	11
University fee .....	8

Fees in laboratory courses for materials and breakage will average about thirty dollars each year.

All breakage and loss not directly traceable to the individual student is assessed pro rata; any unforfeited balance will be returned to the student at the expiration of the course.

Persons are allowed to register as auditors for the tuition fees without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

*The tuition fee stated above applies to students entering the College of Pharmacy in 1927-28. Students in residence during the session of 1924-25 will be charged tuition fees in accordance with statements in the catalogue of 1924-25.*

No registration will be accepted for less than a full half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. Registration in the Pharmacy School is for a period not to exceed one year at a time and acceptance by the School of a student's registration fee does not in any way obligate the School to accept that student for any subsequent year.

Registration, other fees and deposits are due in full advance. Tuition may be paid in eight monthly installments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond of \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Treasurer.

For regulations concerning fees, see page 41 in the General Catalogue.

#### WITHDRAWALS

*Withdrawals will be granted only on recommendation of the Dean and the approval of the President.*

A certificate of work actually done will be given to any student granted a withdrawal or a transfer to another school during the session. A written request for withdrawal or transfer must be filed with the Dean and no permission to withdraw or transfer, and no certificate of work done will be given a student unless all fees and dues chargeable against him up to the end of the month in which he withdraws have been paid.

#### BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$30 to \$50 a month.

For catalogues, application blanks, and further information, address  
THE DEAN,

College of Pharmacy,  
George Washington University,  
Washington, D. C.



## SUMMER SCHOOL FACULTY

WILLIAM MATHER LEWIS, A.M., LL.D. .... *President of the University*  
 HOWARD LINCOLN HODGKINS, Ph.D., Sc.D. .... *Dean of the University*  
 ELMER LOUIS KAYSER, A.M. .... *Director of the Summer School*

WILLIAM ALLEN WILBUR, A.M., Litt.D.,  
*Dean of Columbian College and Professor of English*  
 PAUL BARTSCH, Ph.D. .... *Professor of Zoology*  
 GEORGE NEELY HENNING, A.M., Litt.D.,  
*Dean of the School of Graduate Studies and Professor of*  
*Romance Languages*

ALFRED FRANCIS WILLIAM SCHMIDT, A.M.,  
*Librarian and Professor of Library Science*  
 EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.,

*Elton Professor of Mental and Moral Philosophy*  
 RAY SMITH BASSLER, Ph.D. .... *Professor of Geology*  
 ROBERT RUSS KERN, A.B. .... *Professor of Economics and Sociology*  
 CHARLES EDWARD HILL, Ph.D. .... *Professor of Political Science*  
 HIRAM COLVER MCNEIL, Ph.D. .... *Professor of Chemistry*  
 THOMAS BENJAMIN BROWN, Ph.D. .... *Professor of Physics*  
 HENRY GRATTAN DOYLE, A.M. .... *Professor of Romance Languages*  
 ROBERT FISKE GRIGGS, Ph.D. .... *Professor of Botany*  
 L. RUSSELL ALDEN, A.M., LL.B. .... *Professor of Commercial Law*  
 COLIN MACKENZIE MACKALL, Ph.D. .... *Professor of Chemistry*  
 EDWARD HENRY SEHRT, Ph.D. .... *Professor of German*  
 HARRY GRANT HODGKINS, A.B. .... *Associate Professor of Mathematics*  
 ROBERT WHITNEY BOLWELL, Ph.D. .... *Associate Professor of English*  
 WALTER LYNNE CHENEY, Ph.D. .... *Associate Professor of Physics*  
 FRED AUGUST MOSS, Ph.D. .... *Associate Professor of Psychology*  
 HAROLD GRIFFITH SUTTON, A.B., M.S. .... *Associate Professor of Economics*  
 CHARLES ELMER RESSER, Ph.D. .... *Assistant Professor of Geology*  
 MERLE IRVING PROTZMAN, A.M.,

*Assistant Professor of Romance Languages*  
 RALPH BAXTER FOSTER, A.M.,

*Assistant Professor of Romance Languages*  
 WARREN REED WEST, Ph.D. .... *Assistant Professor of Political Science*  
 ALAN THOMAS DEIBERT, A.M.,

*Assistant Professor of Romance Languages*  
 ANDRÉ MARIE-GEORGES BENÉTEAU, B.L. .... *Instructor in French*  
 AUDLEY LAWRENCE SMITH, A.M. .... *Instructor in English*  
 PAUL EUGENE GRÖPP, A.M. .... *Instructor in German*

GEORGE KUMLER ANDERSON, Ph.D.....	<i>Instructor in English</i>
LOWELL JOSEPH RAGATZ, Ph.D.....	<i>Instructor in History</i>
COURTLAND DARKE BAKER, A.M.....	<i>Instructor in English</i>
CARL LEROY FREDERICK, A.B.....	<i>Instructor in Physics</i>
BENJAMIN DOUGLAS VAN EVERA, M.S.....	<i>Instructor in Chemistry</i>
JOHN RUSSELL MASON, A.M.....	<i>Assistant Librarian</i>
RAYMOND McGEARY HANN, B.S. in Chem.....	<i>Instructor in Chemistry</i>
FORREST ALBERT YOUNG, A.M.....	<i>Instructor in Economics and Commerce</i>
EDWARD P. HENDERSON, A.B.....	<i>Instructor in Geology</i>
M. A. MARTINEZ.....	<i>Instructor in Spanish</i>

## VISITING PROFESSORS

WILLIAM MOSELEY BROWN, Ph.D.,	<i>Professor of Education and Psychology, Washington and Lee University.</i>
JOHN DONALD HICKS, Ph.D.,	<i>Professor of American History, University of Nebraska.</i>
ARTHUR D. WRIGHT, M.A.,	<i>Professor of Education, Dartmouth College.</i>
JOHN P. WYNNE, Ph.D.,	<i>Professor of Education, State Teachers College, Farmville, Virginia.</i>
ALVA CURTIS WILGUS, Ph.D.,	<i>Associate Professor of History, University of South Carolina.</i>
WILLIAM MCKINLEY ROBINSON, M.A.,	<i>Specialist, United States Bureau of Education.</i>

## ASSISTANTS

*Botany:* JUNE COOPER, A.B.; *Chemistry:* DEE HURST, A.B., ARTHUR EVARTS KIMBERLY, B.S. in Chem., RUSSELL WILSON, B.S. in Chem. E., FRED C. FARRELL, CORINNE DE BARYSHE; *Zoology:* HARRIET BUNDICK, WILLIAM T. McCLOSKEY, A.B., ELIZABETH PARKER, A.B.



## SUMMER SCHOOL

### ARTS AND SCIENCES

1927

The 1927 session will be the twelfth in the present series of summer sessions in George Washington University. The summer school is an integral part of the University, and all of the courses given are similar to the corresponding courses given during the regular session. The teaching staff is for the greater part composed of members of the faculty of the University.

The Summer School offers to students an opportunity to continue work toward their degrees during the vacation period. For teachers and librarians a wide range of professional courses is available.

In addition, the educational value of a visit to the nation's capital is of inestimable importance. The knowledge gained forms a background for both intelligent and appreciative citizenship. History, geography, literature, civics and current events are all vivified by a first hand knowledge of Washington and its environment.

#### ADMISSION

All the work offered is of college grade and rests upon a minimum preparation of high school graduation or the equivalent. Unless a student wishes to matriculate in the University, the formal presentation of entrance credentials is not required.

#### REGISTRATION

Registration for courses, changes in registration, and the dropping of courses are effected in the Registrar's Office, 2033 G Street N.W. This office will be open to receive registrations from 9 a. m. to 6 p. m. after June 9, although students may register at any earlier date in person, or by mail. Registration for credit in any class closes three days after the class has started, unless written permission to the contrary is granted by the Director.

#### CREDIT

The units of credit in semester hours carried by the several courses are indicated both in the schedule of classes on pages 9-11 and in the descriptive outlines of the course on pages 12-24. A semester hour of work covers a minimum of fifteen class or laboratory periods.

Work satisfactorily completed in the Summer School will be accredited toward a degree at George Washington University on the same basis as work completed during the regular session. No student is permitted to take more than three courses without the special permission of the Director who may for reasons of weight permit a student to register for a fourth course. Students regularly employed

will not be allowed to register for more than two courses without the special permission of the Director.

A division of courses into three sections is recognized. First section courses, numbered from 1 to 19, inclusive, are planned primarily for lower classmen; second section courses, numbered from 20 to 49, inclusive, for upper classmen; and third section courses, numbered 50 and above, for graduate students. First section courses may not be credited toward the higher degrees, and second section courses, unless otherwise noted, may be so credited only after additional work in them has been satisfactorily completed. Third section courses may not be entered by students without a bachelor's degree except with the approval of the instructors concerned. Candidates for the master's degree at George Washington University must complete at least six semester hours of work in the third section.

#### GRADUATE STUDY

The requirements for the degree of Master of Arts may be satisfied by Summer School attendance exclusively. These requirements involve, in addition to the thesis, the satisfactory completion of twenty-four semester hours of work, forming a consistent plan of study, and a minimum attendance of twenty-seven weeks. The candidate's choice of subjects must be approved by his major department and by the Dean. Wherever possible it is advisable for students to consult members of the major department before registering. For a detailed statement of the requirements for the Master's and Doctor's degrees, the student is referred to the regular catalogue of the University.

#### LIBRARY

The University Library is located on the first floor of Lisner Hall (Building 4). The Library will be open during the summer session from 8.30 a. m. to 12.30 p. m. and 3 to 9 p. m.

#### DIRECTOR

The office of the Director of the Summer School is located on the first floor of the Administration Building (A 11), 2100 G Street.

#### HOUSING FACILITIES

A register of approved rooms is kept in the office of the Dean of Women (Building 8), where inquiries in respect to housing facilities should be addressed. Living accommodations in private houses, dining rooms, restaurants and cafeterias may be found in abundance near the University.



## PAYMENT OF FEES

The Cashier's office, where all fees are paid, is located at 2033 G Street, across the hall from the Registrar's office. Fees are due upon registration, but the nine-weeks' students may pay their fees in three equal installments, at the time of registration, July 1 and July 15, and the six-weeks' students in two equal installments, at the time of registration and July 15. Students whose fees are not paid in full three days after the final dates mentioned and who have not made arrangements for later payment with the Treasurer will be dropped.

Students who are compelled to withdraw before the end of the session should promptly notify the Registrar, who will make a fair adjustment of the fees. No separate registration fee is charged, but two dollars of the tuition fee may be canceled. As the fiscal year of the University ends August 31, no requests for refunds can receive consideration after that date.

## FEES

Tuition is charged at the rate of \$7.00 for each semester hour of work taken, except in the case of students who were in attendance during 1924-5, who will be charged in accordance with statements in the catalogue of 1924-5.

Laboratory fees are additional as follows:

Chemistry 2, Geology 1, Physics 4a and 4b, each.....	\$5.00
Chemistry 15 and Zoology 3, each.....	7.50
Chemistry 3, 4 and 20, each.....	10.00
Chemistry 16, 41, 46 and 93, each.....	15.00

Breakage deposits, the amount paid in excess of breakage to be returned:

Chemistry 2, 3 and 4, each.....	10.00
Chemistry 10, 15, 16, 41, 46 and 93, each.....	15.00

Microscope rental:

Zoology 4 .....	2.00
Zoology 3 and Botany 1, each.....	5.00

## SCHEDULE OF CLASSES

In this statement courses which are starred begin July 5. All other courses begin June 13. Classes meet five times a week, or the equivalent. Credits are stated in semester-hours.

Course.	Credits.	Instructor.	Room.
7:45—8:40 A. M.			
Commerce 26, Marketing	3	Young	C.H. 24
Economics 33, Investments	3	Sutton	C.H. 21
*Education 21 B, Principles of Teaching	2	Wynne	C.H. 22
*Education 22 B, History of Education	2	Brown	C.H. 15
*Education 26 B, Elementary Education	2	Robinson	C.H. 32
*English 2 A, Rhetoric	3	Wilbur	C.H. 23
Geology 1, Mineralogy	4	Henderson	C.H. 31
German 6, Scientific German	3	Gropp	C.H. 25
History 27, Hispanic-American History	3	Wilgus	C.H. 35
History 45, Modern Imperialism	3	Ragatz	C.H. 29
Political Science 1, U. S. Government	3	West	C.H. 33
8—10			
*Zoology 4, Nature Study	3	Bartsch	3-11
9:05—10			
*Commerce 1, History of Commerce	2	Young	C.H. 24
*Education 21 A, Educational Psychology	2	Brown	C.H. 15
*Education 24, History of Education	2	Wright	C.M. 21
*Education 26 A, Elementary Education	2	Robinson	C.H. 32
*English 32, Shakespeare	2	Wilbur	C.H. 23
*History XLVII, Recent American History	3	Hicks	C.H. 35
*Philosophy 21, Principles of Philosophy	2	Richardson	C.H. 25
10:05—11			
*Botany 2, Plant Kingdom	3	Griggs	C.H. 24
*Education 11, Educational Psychology	2	Brown	C.H. 15
*Education 25 A, Secondary Education	2	Wynne	C.H. 22
*Education 33, Teaching of History	2	Wilgus	C.H. 35
*Education 54, Administration and Supervision	3	Wright	C.H. 21
*English XXIX, Romances and Balladry	2	Anderson	C.H. 25
*English XLI, Pilgrims Progress	2	Wilbur	C.H. 23
*Political Science 24, Constitutional Law	2	West	C.H. 33
*Psychology 11, Educational Psychology	2	Brown	C.H. 15
11:05—12			
*Education 25 B, Junior High School	2	Wynne	C.H. 22
*Education 31 B, Tests and Measurements	2	Wright	C.H. 21



Course.	Credits.	Instructor.	Room.
*English XXVIII, Early English Literature	2	Anderson	C.H. 25
*History 38, French Revolution	2	Ragatz	C.H. 29
*Political Science 25, Political Theory	2	West	C.H. 33
1:30—4:30 P. M.			
*Botany 5, Plant Study	4	Griggs	2-21
4:10—5			
English XLII, Modern Poetry	3	Baker	6-22
French 12, Third Year French	3	Henning	5-21
Political Science 3, State Governments	3	Hill	C.H. 17
5:10—6			
Chemistry 2, General Chemistry (to 6:20)	6	McNeil	C.H. 39
Chemistry 3, General Chemistry (to 6:55)	10	McNeil	C.H. 39
Chemistry 4, General Chemistry (to 6:20)	8	McNeil	C.H. 39
Chemistry 10, Physical Chemistry (to 6:55)	10	Van Evera	C.H. 37
Chemistry 15, Organic Chemistry (to 6:20)	6	Mackall	C.H. 36
Chemistry 16, Organic Chemistry (to 6:20)	8	Mackall	C.H. 36
(For other courses in Chemistry see announcement on page 12.)			
Commerce 33 A, Contracts	2	Alden	5-22
English 6 A, Survey	3	Bolwell	6-12
English 38 B, Romantic Movement	3	Smith	6-21
English XL, The Short Story	3	Baker	6-22
French 1, First Year French (2 hours daily, second hour 6:55)	6	Foster	4-32
French 4, Second Year French (2 hours daily, second hour 6:55)	6	Henning	5-21
French 7, Composition and Conversation	3	Benéteau	4-23
History 10 A, American History to 1829	3	Hicks	C.H. 27
History 11, Medieval History	3	Ragatz	C.H. 29
Library Science 1, Cataloguing	3	Schmidt	4-29
Mathematics 4 A, College Algebra	3	Cheney	4-21
Mathematics 9 B, Analytic Geometry	3	Hodgkins	5-11
Physics 3 A, General Physics	3	Brown	4-14
Political Science 31, World Politics	3	Hill	C.H. 17
Psychology 12 B, Applied Psychology	3	Moss	4-28
Spanish 1, First Year Spanish (2 hours daily, second hour 6:55)	6	Deibert	C.H. 22
Spanish 4, Second Year Spanish (2 hours daily, second hour 6:55)	6	Doyle	C.H. 35
Zoology 3, Zoology	8	Bartsch	6-11
5:10—6:55			
Chemistry 3, General Chemistry	10	McNeil	C.H. 39

Course.	Credits.	Instructor.	Room.
Chemistry 10, Physical Chemistry and Qualitative Analysis	10	Van Evera	C.H. 37
Economics 2, Principles of Economics	6	Sutton	4-27
Economics 21, Experimental Sociology	6	Kern	C.H. 25
Geology 2, General Geology	4	Bassler	5-12
German 2, First Year German	6	Gropp	C.H. 24
German 4, Second Year German	6	Sehrt	4-24
5:10—7:45			
*Botany 25, Plant Adaptation	3	Griggs	2-21
6:05—6:55			
*Botany 1, Living Plant	3	Griggs	C.H. 15
Commerce 33 B, Commercial Paper	2	Alden	5-22
Commerce 43, Foreign Trade	3	Young	C.H. 33
English 6 B, Survey	3	Bolwell	6-12
English XXIV, American Literature	3	Smith	6-21
French 2 B, Second Semester French	3	Foster	4-32
History 10 B, American History from 1829	3	Hicks	C.H. 27
History 25 A, English History	3	Wilgus	C.H. 29
Library Science 20, Classification	3	Schmidt	4-29
Mathematics 4 B, Geometry and Trigonometry	3	Cheney	4-21
Mathematics 9 A, Plane and Spherical Trigonometry	3	Hodgkins	5-11
Philosophy 26, Logic	3	Richardson	C.H. 15
Physics 3 B, General Physics	3	Brown	4-14
Political Science 29, International Law	3	Hill	C.H. 17
Psychology 12 A, General Psychology	3	Moss	4-28
Spanish 2 B, Second Semester Course	3	Protzman	6-22
Spanish 7, Conversation and Composition	3	Martinez	4-23
Spanish 12, Modern Spanish Drama	3	Doyle	C.H. 35
6—8			
Zoology 27, Physiology	6	Bartsch	3-11
6:55—7:50			
English 23 B, Modern Novel	3	Bolwell	6-12
French 1, First Year Course (see 5:10)			4-32
French 4, Second Year Course (see 5:10)			5-21
Geology 3, Geography	2	Bassler	5-12
Library Science 31, Bibliography	3	Schmidt	4-29
Philosophy 28, Ethics	3	Richardson	C.H. 15
Spanish 1, First Year Course (see 5:10)			C.H. 22
Spanish 4, Second Year Course (see 5:10)			C.H. 35
7:50—8:40			
Psychology 50, Seminar	3	Moss	4-28

NOTE.—For laboratory hours, see announcements under "Courses of Instruction."



## COURSES OF INSTRUCTION

Courses preceded by a star (\*) begin on July 5, all other courses begin on June 13. Courses corresponding approximately to those offered during the regular session are given corresponding numbers. Courses not so corresponding are assigned Roman numerals. The letters a and b following some of the numbers signify correspondence respectively to first and to second semester work of the regular session.

Courses called for by less than ten students may be withdrawn.

## BOTANY

Courses 1 and 2 in General Botany are equivalent to the general introduction to the science given in the regular session. To enable part time students to secure the whole course after working hours it is planned to reverse the schedule in the summer of 1928. Text: Holman and Robbins, Textbook of General Botany.

\*1. *The Living Plant*.—A study of the structure and function of the flowering plant as a working mechanism. Recitation daily, 6:05-6:55 p. m.; laboratory daily, 6:55-7:45 p. m. Three semester-hour credits. Professor GRIGGS and Miss COOPER.

\*2. *The Plant Kingdom*.—A rapid survey of the principal groups of plants followed by practice in determining the common native plants. Recitation daily, 10:05-11:00 a. m.; laboratory daily, 11:05-12:00 a. m. Three semester-hour credits. Professor GRIGGS and Miss COOPER.

\*5. *Plant Study*.—An out-of-doors course designed to familiarize the student with the plants—higher and lower—growing around Washington. Field trips daily, 1:30-4:30 p. m. Four semester-hour credits. Professor GRIGGS and Miss COOPER.

\*25. *Plant Adaptation*.—A study of the structural modifications—especially ecological histology—by which plants meet the conditions of special environments. Prerequisite: Botany 1 and 2 or equivalent. Lectures, laboratory and field trips. Daily, 5:10-7:45 p. m. Three semester-hour credits. Professor GRIGGS.

\*26. *Advanced Field Work*.—Competent students may take up some special problem. Hours and credits to be arranged. Professor GRIGGS.

## CHEMISTRY

2. *General Chemistry*.—A course for students who do not plan to continue the study of Chemistry. Prerequisite: High School Chemistry. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 3:00-5:00 p. m. or 7:00-9:00 p. m. Six semester-hour credits. Professor McNEIL and Assistants.

3. *General Chemistry*.—A course for engineering and premedical students, and for those majoring in Chemistry. Prerequisite: none. Lectures daily, 5:10-6:55 p. m. Laboratory daily, 1:00-5:00 p. m. or

7:00-11:00 p. m. Ten semester-hour credits. Professor McNEIL and Assistants.

4. *General Chemistry*.—A course for engineering and premedical students, and those majoring in Chemistry. Prerequisite: High School Chemistry. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Eight semester-hour credits. Professor McNEIL and Assistants.

10. *Elementary Physical Chemistry and Qualitative Analysis*.—The lectures consist of an elementary presentation of Physical Chemistry, and the foundations of Analytical Chemistry. The laboratory work of the first half of the course is devoted to physico-chemical measurements, and that of the second half to Qualitative Analysis. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:55 p. m. Laboratory daily, 7:00-11:00 p. m. Ten semester-hour credits. Mr. VAN EVERA.

15. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:20 p. m. Laboratory, Monday, Wednesday and Friday, 1:40-5:00 p. m. or 7:00-10:20 p. m. Six semester-hour credits. Professor MACKALL, Mr. HANN and Assistants.

16. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Eight semester-hour credits. Professor MACKALL, Mr. HANN and Assistants.

41. *Inorganic Chemistry*.—Advanced synthetic inorganic preparations. Prerequisite: Chemistry 3 or 4, and 10. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Four semester-hour credits. Professor MACKALL and Assistants.

46. *Advanced Organic Chemistry*.—Advanced synthetic organic preparations. Prerequisite: Chemistry 3 or 4, and 16. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Four semester-hour credits. Professor MACKALL and Assistants.

93. *Research in Organic Chemistry*.—Daily, 1:00-5:00 p. m. Professor MACKALL.

## COMMERCE

1. *History of Commerce*.—A study of the influence of the processes of commerce and industry upon the history of civilization, and of the development of commercial and industrial institutions from antiquity to the present time; includes consideration of World War changes and post-war problems. Prerequisite: Principles of Economics. At 9:05 a. m. Two semester-hour credits. Mr. YOUNG.

26. *Marketing*.—A fundamental course in the principles, methods, and problems of marketing. Wholesale and retail methods are fully



analyzed, and such specific problems as speculation, elimination of middlemen, and price control are examined. The position of the state in its relation to marketing is discussed; and an examination of the cooperative movement concludes the course. Prerequisite: Principles of Economics. At 7:45 a. m. Three semester-hour credits. Mr. YOUNG.

33a. *Commercial Law*.—Contracts. At 5:10 p. m. Two semester-hour credits. Professor ALDEN.

33b. *Commercial Law*.—Commercial Paper. At 6:05 p. m. Two semester-hour credits. Professor ALDEN.

43. *Foreign Trade*.—Principles and practices; underlying economic factors; market development; finance and documentation; regulation and promotion. Special attention is given to an analysis of the trade of the United States and to a survey of important markets. Prerequisite: Principles of Economics. At 6:05 p. m. Three semester-hour credits. Mr. YOUNG.

### ECONOMICS AND SOCIOLOGY

2. *Principles of Economics*.—A survey of the basic principles which underlie the production, consumption, and distribution of wealth in the economic society in which we live. Prices, business organization, finance, international trade, labor problems, relation of government to business, marketing, transportation, and taxation indicate the scope of this course. This is the prerequisite for advanced courses in economics and commerce. At 5:10 p. m. and meeting through 6:55 p. m. (two consecutive periods). Six semester-hour credits. Associate Professor SUTTON.

Note:—Students already having credit for three hours of economics should communicate with the instructor and arrange to enter for the second half of the course not later than July 18. The last half of this course is the equivalent of the second semester's work in Economics 1 and 2.

21. *Experimental Sociology*.—The course is devoted mainly to the study of social behavior, customs and social judgments upon such behavior. The student is expected to join the class in making careful observations of social conduct and in making a series of experiments adapted to the development of a better understanding and improved techniques for the control of social conduct. At 5:10 p. m. and meeting through 6:55 p. m. Six semester-hour credits. Professor KEERN.

33. *Investments*.—A course in the basic principles of investment. The analysis of the various factors of investment credit and their application to the different types of investments. The needs of various classes of private and institutional investors; proper selection of securities adapted to these needs. The necessary care of investments after

making them. At 7:45 a. m. Three semester-hour credits. Associate Professor SUTTON.

### EDUCATION

III. *Junior High School Geography*.—Same as Geology 3. At 6:55 p. m. Two semester-hour credits. Professor BASSLER.

11. *Educational Psychology*.—A rapid survey of the facts and principles of Psychology, followed by a more detailed consideration of the psychology and pedagogy of learning. At 10:05 a. m. Two semester-hour credits. Professor BROWN.

21a. *Educational Sociology*.—The school as a social institution. Principles of sociology that most concern various types of education as determined by the needs of society, economic life, and culture. Problems in curriculum revision. At 9:05 a. m. Two semester-hour credits. Professor BROWN.

21b. *Principles of Teaching*.—Principles of teaching as indicated by biology, psychology, and sociology; formulations of such principles for the guidance of practice; application to instruction in the elementary school, the secondary school and the college. At 7:45 a. m. Two semester-hour credits. Professor WYNNE.

22b. *History of Education*.—A study of the chief educational developments since the revival of learning. At 7:45 a. m. Two semester-hour credits. Professor BROWN.

24. *History of American Education*.—A study of the development of American education from colonial times to the present. At 9:05 a. m. Two semester-hour credits. Professor WRIGHT.

25a. *Secondary Education*.—The place of secondary education in the school system, types of secondary schools; courses of study; dynamic methods; administration. At 10:05 a. m. Two semester-hour credits. Professor WYNNE.

25b. *The Junior High School*.—A study of the purposes of the junior high school and the reorganization needed to achieve them; history of the movement; the curriculum; methods of instruction. At 11:05 a. m. Two semester-hour credits. Professor WYNNE.

26a. *Elementary Education*.—This course will center on the teaching of reading, language, spelling, writing and arithmetic and will emphasize both subject matter and method. The practical use of related tests and scales will be considered. At 9:05 a. m. Two semester-hour credits. Mr. ROBINSON.

26b. *Elementary Education*.—This course will center on the teaching of geography, history, citizenship, elementary science, hygiene, health, and fine and industrial arts. The organization of curricula, vitalized methods, and standardized tests will be considered. At 7:45 a. m. Two semester-hour credits. Mr. ROBINSON.



31b. *Tests and Measurements*.—A study of educational tests with consideration of the technique of their construction and administration, the interpretation of their results, and the modification of methods and programs to meet the conditions revealed. At 11:05 a. m. Two semester-hour credits. Professor WRIGHT.

33. *Teaching of History*.—A course in practical problems designed for history teachers in secondary schools, with special reference to the Junior High School. Text, lectures and special readings. At 10:05 a. m. Two semester-hour credits. Associate Professor WILGUS.

54. *Administration and Supervision*.—This course will deal with some of the problems confronting the superintendent, the supervisor, and the principal, and those preparing for such work. A paper embodying constructive scholarship will be required of each member of the class. Open to graduate students, principals, and supervisors. Others may be admitted by permission of the instructor. At 10:05 a. m. Three semester-hour credits. Professor WRIGHT.

#### ENGLISH

\*2a. *English Rhetoric*.—The course covers the text of the regular course for the first semester, including practice in composition. Lectures and conferences. At 7:45 a. m. Three semester-hour credits. Professor WILBUR and Dr. ANDERSON.

6a. *Survey of English Literature*.—First half from Beowulf to close of the eighteenth century. At 5:10 p. m. Three semester-hour credits. Associate Professor BOLWELL.

6b. *Survey of English Literature*.—Second half from Romantic Movement to contemporary writers. At 6:05 p. m. Three semester-hour credits. Associate Professor BOLWELL.

23b. *The Modern Novel*.—From Scott and Austen to contemporary American and English novelists. At 6:55 p. m. Three semester-hour credits. Associate Professor BOLWELL.

XXIV. *American Literature*.—A study of the poetry and prose of Emerson, Poe, and Whitman. At 6:05 p. m. Three semester-hour credits. Mr. SMITH.

XXVIII. *Early English Literature*.—A study in modern English translation of the most important monuments of English literature prior to 1400. At 11:05 a. m. Two semester-hour credits. Dr. ANDERSON.

XXIX. *English Romances and Balladry*.—At 10:05 a. m. Two semester-hour credits. Dr. ANDERSON.

\*32. *Shakespeare*.—The Philosophies. At 9:05 a. m. Two semester-hour credits. Professor WILBUR.

38b. *Poetry of the Romantic Movement*.—The poetry of Wordsworth, Byron, Shelley, and Keats. At 5:10 p. m. Three semester-hour credits. Mr. SMITH.

XL. *The Short Story*.—An historical survey with the emphasis on recent tendencies in the short story. Written reports and conferences. At 5:10 p. m. Three semester-hour credits. Mr. BAKER.

XLI. *The Pilgrim's Progress*.—At 10:05 a. m. Two semester-hour credits. Professor WILBUR.

XLII. *English and American Poetry since 1890*.—At 4:10 p. m. Three semester-hour credits. Mr. BAKER.

### FRENCH

1. *First-Year Course*.—For beginners. Grammar, translation, drill on pronunciation. Fraser and Squair's French Grammar (old edition). Texts to be announced. Students who complete this course successfully will be admitted to second-year course, French 3 or 4, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Assistant Professor FOSTER.

2b. *Second Semester of First-Year Course*.—Open to students who have just completed successfully one year of high school French or the first semester of first-year college French. At 6:05 p. m. Three semester-hour credits. Professor HENNING or Assistant Professor FOSTER.

4. *Second-Year Course*.—Open to students who have completed successfully two years of high school French or one year of college French. Grammar, translation, and reading. Fraser and Squair's French Grammar (old edition). First text, Dumas fils, "La Question d'argent" (D. C. Heath and Co.). Students who complete this course successfully will be admitted to third-year course, French 5 or 6, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor HENNING.

Note:—Students electing French 1 or 4 may take no class at 6 o'clock. An assignment for study will be made at the 5:10 for the 6:55 period.

7. *Composition and Conversation*.—Open to students who have completed successfully two years of high school French or one year of college French. This course may not be substituted for any part of the curriculum requirements for two years of modern languages. Students receiving grade A or B in this course may enter French 8 in the fall. At 5:10 p. m. Three semester-hour credits. M. BENÉTEAU. Given only if elected by at least ten students at the beginning of the course.

12. *Third-Year Course*.—Open to students who have completed successfully four years of high school French or two years of college French. A course in modern fiction, intended for students who wish to have facility in reading French, and some idea of French literature. It does not prepare directly for courses of the second group, "For Undergraduates and Graduates," but students who complete this course may later take Course 5 or 6 and count both courses toward the



degree, and towards the undergraduate major in Romance Languages. At 4:10 p. m. Three semester-hour credits. Professor HENNING. Given only if elected by at least ten students.

### GEOLOGY AND MINERALOGY

1. *Mineralogy*.—Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. At 7:45 a. m. and one additional hour to be arranged. Four semester-hour credits. Mr. HENDERSON.

2. *General Geology*.—Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general culture course or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-book: Cleland's *Geology*. From 5:10 to 6:55 p. m. Four semester-hour credits. Professor BASSLER.

3. *General Geography*.—This course presents the principles of geography by a study of the phenomena of the earth as a whole, the interrelations of these phenomena and their influence upon human affairs. It consists of two parts: first, a study of the general geographic principles; and second, a brief survey of several regions and countries for the application of these principles. It is a general culture lecture course illustrated by charts and lantern slides. No course is prerequisite. At 6:55 p. m. Two semester-hour credits. Professor BASSLER.

IV. *Field Course on the Geography of the United States*.—This course will consist of lectures, conferences and observations on the regions traversed. The itinerary is so arranged as to allow observations in most of the geographic regions of the United States. The students will accompany a tour party and be required to attend the stated lectures and conferences and to pass examinations. Particular observations will be made in the region of the Upper Great Lakes, the Rocky Mountain Front, Utah, the Yellowstone, the west coast and the dry southwest. About June 23-July 25. Three semester-hour credits. Assistant Professor RESSER.

Note:—The University takes no responsibility for financial arrangements in connection with the tour.

## GERMAN

2. *First Year German*.—The essentials of German Grammar, translation of easy prose and poetry; beginning conversation; composition and dictation. This course is open to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. From 5:10 to 6:55 p. m. Six semester-hour credits. Mr. GROPP.

4. *Second Year German*.—This course is equivalent to the advanced German of admission requirements and it is open only to students who have passed Course 1 or 2, or who have satisfied the admission requirements in Elementary German. From 5:10 to 6:55 p. m. Six semester-hour credits. Professor SEHRT.

6. *Scientific German*.—Designed primarily for students in the scientific and engineering courses. This course may be taken by students who have passed Courses 1 and 2, or who have satisfied the entrance requirements in Elementary German. Both German 4 and 6 may be taken for credit. At 7:45 a. m. Three semester-hour credits. Mr. GROPP.

## HISTORY

Note:—For course in the Teaching of History see Education 33.

10a. *American History to 1829*.—A survey of the Colonial and early national periods with emphasis upon political history. At 5:10 p. m. Three semester-hour credits. Professor HICKS.

10b. *American History from 1829*.—Course 10a continued. May be taken separately from Course 10a. At 6:05 p. m. Three semester-hour credits. Professor HICKS.

11. *Medieval History*.—Europe from the decline of the Roman Empire through the age of geographic exploration. Texts, lectures, and quiz sections. At 5:10 p. m. Three semester-hour credits. Dr. RAGATZ.

25a. *English History*.—A general course in English history to the sixteenth century. Text, lectures, quiz sections, and parallel readings. At 6:05 p. m. Three semester-hour credits. Associate Professor WILGUS.

27. *Hispanic-American History*.—A general survey of the Spanish and Portuguese colonies in America, their transition to independent states, and their modern development. Texts, lectures and special readings. At 7:45 a. m. Three semester-hour credits. Associate Professor WILGUS.

\*38. *The French Revolution and the Napoleonic Era*.—A study of the important transitions—political, social, economic and intellectual—which occurred during the period of the French Revolution and the domination of Napoleon. At 11:05 a. m. Two semester-hour credits. Dr. RAGATZ.



45. *Modern Imperialism*.—A study of colonial expansion during the nineteenth and twentieth centuries, with special reference to the partition of Africa and Asia and overseas rivalries of the European powers. Texts and lectures. At 7:45 a. m. Three semester-hour credits. Dr. RAGATZ.

\*XLVII. *Recent American History*.—The United States from 1898 to the present time; the Spanish-American War, expansion and its diplomatic consequences, social and economic conditions, the World War and after. A term paper will be required of all students. At 9:05 a. m. Three semester-hour credits. Professor HICKS.

#### LAW

A separate Bulletin is published for the work offered in the Law School.

#### LIBRARY SCIENCE

1. *Cataloguing*.—This course is designed to cover the general principles of library science, with special emphasis on the elements of cataloguing. At 5:10 p. m. Three semester-hour credits. Professor SCHMIDT.

20. *Classification*.—The general principles and distinguishing characteristics of the Dewey, Cutter and Library of Congress systems are discussed and books classified according to each, with accompanying practice in shelf-listing and book-notation. Prerequisite: Course 1 or practical library work. At 6:05 p. m. Three semester-hour credits. Professor SCHMIDT.

30. *Reference and Administration*.—Prerequisite: Courses 1 and 20, or adequate library experience. Three semester-hour credits. Professor SCHMIDT. Not given in 1927.

31. *Bibliography, Book-Selection and Allied Topics*.—Prerequisite: Course 30, or adequate library experience. At 7:15 p. m. Three semester-hour credits. Professor SCHMIDT.

Note:—Courses 1 and 20 may be continued the second semester of the regular school year; and Course 31 alternates with Course 30, the two constituting the work of the third year.

#### MATHEMATICS

4a. *College Algebra*.—Starting with a review of quadratics. At 5:10 p. m. Three semester-hour credits. Associate Professor CHENEY.

4b. *Geometry and Trigonometry*.—Solid geometry and all of plane trigonometry. At 6:05 p. m. Three semester-hour credits. Associate Professor CHENEY.

9a. *Plane and Spherical Trigonometry*.—This course is offered primarily for students who have had Plane Trigonometry. At 6:05 p. m. Three semester-hour credits. Associate Professor HODGKINS.

9b. *Analytic Geometry*.—This course is offered to students who have had Plane and Spherical Trigonometry. At 5:10 p. m. Three semester-hour credits. Associate Professor HODGKINS.

(Courses 9a and 9b may be taken concurrently.)

### NATURE STUDY

(See Botany and Zoology.)

### PHILOSOPHY

\*21. *Philosophy*.—This course is intended to give a general survey of the subject for beginners. At 9:05 a. m. Two semester-hour credits. Professor RICHARDSON.

26. *Logic*.—A study of the fundamental concepts of logic: induction and deduction; hypotheses; logical analyses. At 6:05 p. m. Three semester-hour credits. Professor RICHARDSON.

28. *Ethics*.—A study of the principal ethical theories from the historical and social points of view. At 6:55 p. m. Three semester-hour credits. Professor RICHARDSON.

### PHYSICS

3a. *Introductory General Physics*.—Mechanics, Heat, and Electrostatics. At 5:10 p. m. Three semester-hour credits. Professor BROWN.

3b. *Introductory General Physics*.—Magnetism and Electricity, Sound, and Light. At 6:05 p. m. Three semester-hour credits. Professor BROWN.

4a and 4b. *Laboratory Physics*.—The schedules of experiments are arranged to parallel the lecture courses, but different schedules may be arranged in special cases. 7:00-10:00 p. m. Two semester-hour credits for either course. Mr. FREDERICK.

### POLITICAL SCIENCE

1. *Government of the United States*.—A general introductory course in Political Science dealing primarily with the government of the United States, with some reference to foreign systems, chiefly by way of comparison, and surveying briefly some of the problems of political theory. At 7:45 a. m. Three semester-hour credits. Assistant Professor WEST.

3. *State Government*.—The structure and functions of the government of the states, the relation to the United States, business protection and regulation, labor, education, health, highways, finance, the police power, political parties, civil service, the initiative, referendum and recall and a brief survey of city government form the subject matter for this course. At 4:20 p. m. Three semester-hour credits. Professor HILL.



24. *Constitutional Law*.—The purpose of this course is to give the student a knowledge of the meaning of the various clauses of the Constitution of the United States. At 10:05 a. m. Two semester-hour credits. Assistant Professor WEST.

25. *Political Theory*.—The political ideas of Aristotle, Plato, Thomas Jefferson and others, the political theory of the American Revolution, the controversy over states' rights, and the development of the idea of democracy will be surveyed. At 11:05 a. m. Two semester-hour credits. Assistant Professor WEST.

29. *International Law*.—What it is. How it governs the relations of states. The protection afforded citizens and property abroad. Jurisdiction over public and private vessels. Intervention. Extradition of fugitives. Treaties and their enforcement. Diplomats and consuls, their duties and immunities. Means of redress falling short of war. At 6:05 p. m. Three semester-hour credits. Professor HILL.

31. *World Politics*.—What neo-mercantilism means. The established and conflicting claims of various nations in Africa, the Near East and Asia. The battle for concessions especially in the Far East. The policy of the United States toward Latin America. The Mandates. Efforts through the League of Nations to bring about a new order. At 5:10 p. m. Three semester-hour credits. Professor HILL.

### PSYCHOLOGY

11a. *Psychology*.—Same as Education 11. At 10:05 a. m. Two semester-hour credits. Professor BROWN.

12a. *General Psychology*.—A course in the fundamental principles underlying human behavior. At 6:05 p. m. Three semester-hour credits. Associate Professor MOSS.

12b. *Applied Psychology*.—A study of the applications of Psychology in the fields of business, industry, law, medicine, and education. At 5:10 p. m. Three semester-hour credits. Associate Professor MOSS.

50. *Seminar*.—A study of recent developments in the applications of Psychology accompanied by research work. At 7:50 p. m. Three semester-hour credits. Associate Professor MOSS.

### SPANISH

1. *First-Year Course*.—For beginners. Elements of Spanish grammar; drill in pronunciation; oral and written composition; translation of modern Spanish prose. Hills and Ford's First Spanish Course (Heath). Students who complete this course successfully will be admitted to second-year course, Spanish 3 or 4, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor DOYLE or Assistant Professor DEIBERT.

2b. *Second Semester of First-Year Course.*—Open to students who have just completed successfully one year of high school Spanish or the first semester of college Spanish. Hills and Ford's First Spanish Course (Heath); Rivera and Doyle's *En España* (Silver, Burdett). At 6:05 p. m. Three semester-hour credits. Professor DOYLE or Assistant Professor PROTZMAN.

4. *Second-Year Course.*—Open to students who have completed successfully two years of high school Spanish or one year of college Spanish. Review of grammar; composition; translation of modern Spanish prose and poetry. Seymour and Carnahan's Spanish Review Grammar (Heath); Benavente, *Tres Comedias* (Heath). Students who complete this course successfully will be admitted to third-year course, Spanish 5 or 6, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor DOYLE.

Note:—Students electing Spanish 1 or 4 may take no class at 6 o'clock. An assignment for study will be made at 5:10 for the 6:55 period.

7. *Conversation and Composition.*—Open to students who have completed successfully one year of college Spanish or its equivalent. Oral and written composition; conversation. At 6:05. Three semester-hour credits. Mr. VÁZQUEZ. (Cannot be counted to meet the curriculum requirement in modern language. Students receiving grade A or B in this course may enter Spanish 8 in the fall. Given only if elected by at least ten students at the beginning of the course.)

12. *The Modern Spanish Drama.*—Open to students who have completed successfully four years of high school Spanish or two years of college Spanish. Intended for students who wish to have facility in reading Spanish, and some idea of Spanish literature. It does not prepare directly for courses in the second group, "For Undergraduates and Graduates," but students who take this course may later take Course 5 or 6 and count both courses for the degree. Spanish 12 may be counted towards fulfillment of the requirements for a major in Romance Languages. At 6:05 p. m. Three semester-hour credits. Professor DOYLE. (Given only if elected by at least ten students.)

## ZOOLOGY

3. *Zoology.*—Invertebrates and vertebrates. A lecture and laboratory course covering the pre-medical requirement. Lecture at 5:10; laboratory, 6-9. Eight semester-hour credits. Professor BARTSCH and Miss PARKER. Text: Volumes I and II, Parker and Haswell, "A Textbook of Zoology," and Davison, "Mammalian Anatomy."

4. *Nature Study.*—An out-of-doors nature study course, concerned with observing, gathering, and studying the animal life, large and



small, found about Washington. Field trips, laboratory work, lectures, and reading. 8-10 a. m. Three semester-hour credits. Professor BARTSCH and Miss BUNDICK.

27. *An elementary course in Physiology*, intended to acquaint the student with the minute structure and function of the organs of the animal body. Text: "Elementary Physiology," by Burton-Opitz. At 6-8. Six semester-hour credits. Professor BARTSCH and Mr. McCLOSKEY.

28. *Advanced Work in Nature Study*.—By special arrangement. Four semester-hour credits. Professor BARTSCH.

50. Students who have the necessary basic training may arrange to undertake advanced work or individual research with Professor BARTSCH. Such courses will cover six semester-hour credits.

## THE MEDICAL SCHOOL

### FACULTY

The names are arranged in the several groups in the order of assignment.

#### PRESIDENT OF THE UNIVERSITY

WILLIAM MATHER LEWIS, A.M., LL.D.

#### DEAN OF THE MEDICAL SCHOOL

WILLIAM CLINE BORDEN, M.D., F.A.C.S. 2306 Tracy Place  
*Professor of Surgery*

*Lieutenant-Colonel, Medical Corps, United States Army, Retired; Chief, Division of Surgery, The George Washington University Hospital and Dispensary.*

#### EMERITUS PROFESSORS

D. KERFOOT SHUTE, A.M., M.D., F.A.C.S.

HENRY CRECY YARROW, M.D.

WILLIAM K. BUTLER, A.M., M.D.

STERLING RUFFIN, M.D.

CHARLES WILLIAMSON RICHARDSON, M.D., Sc.D., F.A.C.S.

JOHN WESLEY BOVEÉ, M.D., F.A.C.S.

#### PROFESSORS

FRANCIS RANDALL HAGNER, M.D., F.A.C.S. The Farragut  
*Professor of Urology*

*Genito-Urinary Surgeon to the Garfield Memorial Hospital; Chief of the Genito-Urinary Clinic, The George Washington University Hospital.*

WILLIAM ALANSON WHITE, M.D. St. Elizabeth's Hospital  
*Professor of Psychiatry and Clinical Professor of Neurology*

*Superintendent of St. Elizabeth's Hospital, District of Columbia; Lecturer on Psychiatry, U. S. Army Medical School and U. S. Navy Medical School.*

OSCAR BENWOOD HUNTER, A.M., M.D.

31 East Oxford Street, Chevy Chase  
*Assistant Dean, Professor of Pathology and Bacteriology, and Chief, Division of Pathology and Bacteriology*

*Consulting Pathologist to the Sibley Hospital and Montgomery County Hospital; Chief of Laboratories and Pathologist to The George Washington University Hospital and Dispensary.*



HURON WILLIS LAWSON, S.M., M.D., F.A.C.S. 1717 N Street N.W.  
*Professor of Obstetrics and Gynecology and Chief Division of  
 Obstetrics and Gynecology*

Obstetrician, Columbia Hospital for Women; *Obstetrician-in-Chief, The George Washington University Hospital and Dispensary.*

WILLIAM THORNWALL DAVIS, M.D., F.A.C.S.

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*Professor of Ophthalmology*

Senior Surgeon, Episcopal Eye, Ear and Throat Hospital (Ophthalmological Service);  
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 for Women.

CUSTIS LEE HALL, M.D.

1801 Eye Street N.W.

*Professor of Orthopedic Surgery*

Orthopedic Surgeon to the Children's Hospital; The Garfield Memorial Hospital;  
 Associate Orthopedic Surgeon to Providence Hospital and to Emergency Hospital;  
*Orthopedic Surgeon to The George Washington University Hospital and Dispensary.*

ARTHUR C. CHRISTIE, M.S., M.D. 1909 Massachusetts Avenue

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*Roentgenologist-in-Chief, The George Washington University Hospital and Dispensary*

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*Professor of Pathology*

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JOSEPH HYRAM ROE, A.M., Ph.D.

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*Professor of Chemistry and Chief, Division of Chemistry*

*Chemist to The George Washington University Hospital.*

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*Professor of Therapeutics*

*Attending Physician, Garfield Memorial Hospital.*

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 Division of Medicine*

*Physician, George Washington University Hospital.*

SEWALL MUNSON CORBETT, M.D.

Arlington, Va.

*Professor of Military Science and Tactics*

*Major, Medical Corps, United States Army.*

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*Attending Physician and Secretary Medical Staff, Children's Hospital; Attending  
 Physician Washington Home for Foundlings; Consulting Pediatrician, Columbia  
 Lying-in Hospital; Pediatrician, George Washington University Hospital.*

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 Medical Officer, St. Elizabeth's Hospital.
- RALPH S. PENDEXTER, LL.B., M.D. The Champlain Apts.  
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- JAMES I. BOYD, A.B., M.D. 1755 Church Street  
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- EARL GRIFFITH BREEDING, A.B., M.S., M.D. 1801 Eye Street  
*Associate in Oto-laryngology*  
 Associate in Oto-Laryngology, Episcopal Hospital; Associate in Ear, Nose and Throat, Children's Hospital.
- JOHN H. LYONS, M.D. 1344 19th Street  
*Associate in Surgery*  
 Associate in Surgery, Emergency and Children's Hospitals.



## CLINICAL ASSOCIATES

- EDGAR SNOWDEN, M.D. 1712 21st Street N.W.  
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 Associate Obstetrician, Columbia Hospital; Associate in Medicine, Emergency Hospital.
- EVERETT MONROE ELLISON, A.B., A.M., M.D., Ph.D. 1720 M Street  
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- HENRY R. SCHRIEBER, M.D. 500 H Street N.E.  
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- BENJAMIN F. WEEMS, M.D. 1746 K Street N.W.  
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- GUY W. LEADBETTER, M.D. The Farragut  
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- F. AUGUST REUTER, M.D. 1737 H Street N.W.  
*Clinical Associate in Urology*
- DANIEL D. V. STUART, JR., M.D. The Wyoming  
*Clinical Associate in Neurology*

## INSTRUCTORS

- HERBERT MARTYN, M.D. ..... *Morbid Anatomy*
- JOSEPH B. GLENN, M.D. ..... *Medicine*
- JOSEPH STEIN, M.D. .... *Anatomy and Clinical Instructor in Medicine*
- WILLIAM F. SHERIDAN ..... *Pathology*
- MARY WOLFORD, R.N. .... *Bacteriology and Clinical Microscopy*
- WILLIAM MARSHALL BLAND, M.D. .... *Medicine*
- CLIFT P. BERGER, A.M. .... *Bacteriology*
- LAURA S. CHADDOCK, R.N. .... *Bacteriology and Clinical Microscopy*
- THOMAS J. SHIVERS ..... *Laboratory Technique*

## CLINICAL INSTRUCTORS

*George Washington University Hospital and Dispensary*

ALBERT P. TIBBETTS, A.B., M.D.	Ophthalmology and Oto-Laryngology
CHARLES O. KNOTT, M.D.	Genito-Urinary Diseases
LYLE M. MASON, M.D.	Surgery
SEWALL M. GRAYSON, M.D.	Surgery
CHARLES B. CAMPBELL, Ph.D., M.D.	Dermatology
JOHN A. REED, M.D.	Medicine
FRANK L. WILLIMAN, B.Sc., M.D.	Medicine
RICHARD L. DESAUSSEURE, M.D.	Laryngology and Otology
GLADYS KAIN, S.B., M.D.	Gynecology
CHARLES DEMAS, M.D.	Gynecology
GEORGE NORDLINGER, M.D.	Gynecology
MAURICE H. HERZMARK, M.D.	Surgery
MASSIE R. PAGE, M.D.	Medicine
JOSEPH HARRIS, M.D.	Obstetrics
FRANCIS ALPHONZO ST. CLAIR, Ph.D., M.D.	Surgery
ROBERT B. HIDE, B.A., M.D.	Medicine
MAX A. HELFGOTT, M.D.	Medicine
H. A. HORNTAL, M.D.	Medicine
GEORGE H. BOWEN, M.D.	Medicine
HERMAN S. HOFFMAN, M.D.	Medicine

*Providence Hospital*

JAMES M. FADELEY, M.D.	Urology
JAMES H. EARLEY, M.D.	Surgery
LOUIS B. CASTELL, M.S., M.D.	Medicine
TERRELL MOODY, M.D.	Medicine
HAZEN E. COLE, M.D.	Medicine
WILLIAM F. PATTEN, M.D.	Laryngology and Otology
RAYMOND F. OSBORNE, M.D.	Pediatrics

*Garfield Hospital*

HERBERT H. SCHOENFELD, M.D.	Surgery
HARRY L. CLAUD, M.D.	Surgery

*Emergency Hospital*

VIRGIL B. JACKSON, M.D.	Gynecology
JACOB KOTZ, M.D.	Gynecology
ROBERT E. MORAN, M.D.	Surgery
GUY W. LEADBETTER, M.D.	Orthopedics
ARCH LOCKHART RIDDICK, B.S., M.D.	Surgery and Gynecology
BENJAMIN NEWHOUSE	Urology
WILLIAM D. GOODMAN, M.D.	Urology



MYER J. HERSCHMANN, M.D.	Urology
CLINT W. STALLARD, M.D.	Medicine
HARRY S. BERNTON, M.D.	Allergy
WILLIAM B. SIMS, M.D.	Medicine
JAMES HAWFIELD, M.D.	Surgery
HARRY FORD ANDERSON, M.D.	Dermatology
FRANCIS G. SPEIDEL, M.D.	Ophthalmology
FRED O. COE, M.D.	Roentgenology

*Gallinger Memorial Hospital*

WILLIAM E. BALLINGER, M.D.	Physical Diagnosis
KATHLEEN M. BARR, M.D.	Physical Diagnosis

*Episcopal Eye, Ear, Nose and Throat Hospital*

BOYCE R. BOLTON, M.D.	Otolaryngology
EDWARD R. GOOKIN, M.D.	Ophthalmology
LEROY SAWYER, A.B., M.D.	Ophthalmology
RICHARD A. BROOKS, M.D.	Otolaryngology
BERNARD L. JARMAN, M.D.	Otolaryngology

*St. Elizabeth's Hospital*

RALPH J. HAWES, M.D.	Medicine
VIRGIL B. WILLIAMS, M.D.	Medicine

*Children's Hospital*

EDWARD LEWIS, M.D.	Pediatrics
EDWARD B. BROOCKS, M.D.	Pediatrics
J. BRECKENRIDGE BAYNE, M.D.	Pediatrics

*Tuberculosis Hospital*

WINTHROP A. RISK, M.D.	Medicine
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## THE STAFF OF THE GEORGE WASHINGTON UNIVERSITY HOSPITAL AND DISPENSARY

### Hospital

WILLIAM CLINE BORDEN, M.D.	Chief, Surgical Service
BUCKNER MAGILL RANDOLPH, M.D.	Chief, Medical Service
HURON WILLIS LAWSON, M.D.	Chief, Obstetrical and Gynecological Service
CHARLES STANLEY WHITE, M.D.	Surgeon
DANIEL LERAY BORDEN, M.D.	Surgeon
FRANK A. HORNADAY, M.D.	Physician
WILLIAM J. MALLORY, M.D.	Physician
JOHN A. REED, M.D.	Associate Physician
ELIJAH WHITE TITUS, M.D.	Gynecologist
HARRY HAMPTON DONNALLY, M.D.	Pediatrician
HOWARD FRANCIS KANE, M.D.	Obstetrician
CUSTIS LEE HALL, M.D.	Orthopedic Surgeon
FRANCIS RANDALL HAGNER, M.D.	Urologist
HOMER GIFFORD FULLER, M.D.	Urologist
FRITZ A. REUTER, M.D.	Urologist
C. AUGUSTUS SIMPSON, M.D.	Dermatologist
VIRGINIUS DADNEY, M.D.	Laryngologist
WILLIAM THORNWALL DAVIS, M.D.	Ophthalmologist
ALBERT P. TIBBETS, M.D.	Associate Otolaryngologist
ARTHUR C. CHRISTIE, M.D.	Chief, Roentgenological Service
THOMAS A. GROOVER, M.D.	Roentgenologist
EDWIN A. MERRITT, M.D.	Roentgenologist
CLINE M. CHIPMAN, M.D.	Anaesthetist
CHARLES W. HYDE, M.D.	Anaesthetist
FRANCIS G. SPEIDEL, M.D.	Anaesthetist
OSCAR BENWOOD HUNTER, M.D.	Chief, Laboratory Service
GEORGE B. JENKINS, M.D.	Anatomist
TOMAS CAJIGAS, M.D.	Pathologist
LESLIE HOWSON FRENCH, M.D.	Physiologist
JOSEPH H. ROE, Ph.D.	Chemist
RUTH A. McLEAN	Technician
B. B. THOMPSON, R.N.	Superintendent of Nurses and Principal of the Training School for Nurses
JASON DAVID BYERS	Superintendent
FRANCIS E. THUNEY	Assistant Superintendent

### Dispensary

BUCKNER MAGILL RANDOLPH, M.D.	Chief of the Clinic
JOHN A. REED, M.D.	Director of the Dispensary



## Medicine

FRANK A. HORNADAY, M.D.	MAX A. HELFGOTT, M.D.
EVERETT M. ELLISON, M.D.	HENRY A. HORNTHAL, M.D.
FRANK L. WILLIMAN, M.D.	GEORGE H. BOWEN, M.D.
MASSIE R. PAGE, M.D.	HERMAN S. HOFFMAN, M.D.

## Surgery

STEWART MAXWELL GRAYSON, M.D.	MAURICE H. HERZMARK, M.D.
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## Orthopedic Surgery

CUSTIS LEE HALL, M.D.	EDWARD C. MORSE, M.D.
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## Urology

F. AUGUST REUTER, M.D.	CHARLES O. KNOTT, M.D.
	LYLE M. MASON, M.D.

## Gynecology

CHARLES DEMAS, M.D.	GLADYS KAIN, M.D.
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## Obstetrics

CYRUS W. CULVER, M.D.	GEORGE NORDLINGER, M.D.
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## Ophthalmology, Otolaryngology

ALBERT PERKINS TIDBETTS, M.D.	RICHARD D. DAVIS, M.D.
RALPH S. PENDexter, M.D.	RICHARD L. DESAUSsARE, M.D.

## Neurology

D. D. V. STUART, M.D.
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## Roentgenology

ARTHUR C. CHRISTIE, M.D.	THOMAS A. GROOVER, M.D.
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## Dermatology

CHARLES B. CAMPBELL, M.D.
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## Dentistry

ALLAN S. WOLFE, D.D.S.	WILFORD JOHANNESSEN, D.D.S.
RALPH L. MORRISON, D.D.S.	H. W. KROGH, D.D.S.

## Pathology, Physiology, Chemistry

OSCAR BENWOOD HUNTER, M.D.	Pathologist
LESLIE H. FRENCH, M.D.	Physiologist
JOSEPH H. ROE, Ph.D.	Chemist

## Laboratory

TOMÁS MOREAU CAJIGAS, M.D.	Director
RUTH ATKINSON McLEAN, A.B.	Technician

## Medical Building

ANNA ELIZABETH SELLNER	Secretary
OSCAR B. HUNTER, M.D.	Curator of the Museum
ALICE DICKINSON, R.N.	Assistant Curator
WILLIAM BINFORD KING, M.D.	Librarian
KATHARINE BREEN	Assistant Librarian
FRANCIS E. THUNEY	Superintendent

## HISTORICAL

The *Medical School of the George Washington University*, in chronological order of establishment, is the eleventh Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an act of Congress approved January 23, 1904, the Columbian University changed its name to The George Washington University.

In order to increase the facilities for bedside and clinical teaching, the University Hospital and the University Dispensary were established in 1898 and made a part of the Medical School. In 1902 the old Medical School Building, in which the exercises had been held since 1867, gave place to the present large and commodious structure.

## EDUCATIONAL POSITION

The Medical School of the University is a member of the Association of American Medical Colleges. It is one of the medical colleges which has been designated continuously as "Class A" by the American Medical Association, is one of the medical schools selected by the Secretary of War to maintain a Reserve Officers' Training Corps Unit, and is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

*The degree of M. D. given by this University admits the holder to all governmental examinations, including those for the Medical Corps of the United States Army and Navy and the Public Health Service and, with evidence of one year of post graduate hospital work in those States which require hospital internship, will admit a graduate to all State examinations.*

The alumni of this School are largely represented in all public services, and have been highly successful in passing the rigid examinations given by them. These facts guarantee the character of the work done by the School and insure students and graduates all the advantages which accrue from such association and recognition.

## BUILDINGS AND OTHER FACILITIES

All the buildings adjoin each other and consist of the Medical School, the University Hospital and the University Dispensary. They are most advantageously situated in the heart of the city within one block of both systems of car lines. As the Hospital and Dispensary adjoin the School, their clinical facilities are easily accessible to the students, and the pathological material and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary are directly used in the School laboratories.



*Medical School Building.*—A modern, commodious, five-story structure with spacious, well-lighted, well-ventilated lecture and class rooms, laboratories, and students' rooms, equipped with steam heat, gas, electricity, and all modern improvements.

*Laboratories.*—Five in number (for anatomy, bio-chemistry and clinical chemistry, histology and embryology, physiology and pharmacology and bacteriology and pathology), are fully equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research work.

*Medical Library.*—Open for study and reading from 9 a. m. to 4 p. m., with a librarian in charge. It contains more than 2,000 volumes, and provision is made to add to it as published the important new works on medicine. The standard medical periodicals are regularly received. The library is an excellent working collection, as it affords opportunity to read up adequately on the subjects presented in the courses.

For purposes of advanced study and research the unequalled resources of the great Library of the Surgeon General of the Army are available to all students and teachers.

*Pathological Museum.*—Open from 9 a. m. to 4 p. m., with a curator in charge. It contains many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease, are all card catalogued and are actively used in the course on pathology and in regularly held clinico-pathological conferences.

*No dental or art courses are conducted in the Medical School, and students in medicine have the advantage of being instructed by teachers whose interests are primarily medical and of not having to be in classes or laboratories with students pursuing other courses.*

#### ADVANTAGE OF LOCATION FOR THE STUDY OF MEDICINE

The city of Washington has over a half million inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of over six thousand beds. In these hospitals clinical instruction, in addition to that in the University Hospital, is given by members of the faculty.

The great libraries and museums connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's office of the United States Army is the most complete general medical library in the world, and in addition to its great collections of medical works, all leading medical periodicals of the world are subscribed for. There is also the Library of Congress, the Public Library, and the many excellent

libraries of the various Government offices. All the facilities of these great libraries are open to *medical students*.

The *Army Medical Museum* affords unrivalled opportunity for studying the conditions met with in military and general medicine and surgery. It has on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. The other great Government museums—the Museum of Hygiene and the National Museum—as well as the Smithsonian Institution, the Fish Commission, the Botanic Gardens and the Department of Agriculture, all afford opportunities for study in medicine and its collateral sciences.

On account of the many medical and scientific facilities of this city, the *Army and the Navy Medical Schools*, with the large *Army and Navy General Hospitals*, have been located here.

*Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its mild climate, its beauty, and as it is the seat of the National Government, its broad interests, make it an ideal place for a medical student to pass his four years of study.*



## ADMISSION

The requirements for admission to the Medical Schools are as follows:

Candidates for matriculation must be of good moral character.

The minimum educational requirements for admission are fifteen units of secondary school work and two years of college work made up as follows:

## Secondary School Units

Credit may be granted for the subjects shown in the following list and for any other subjects counted by a standard accredited high school as a part of the requirements for its diploma, provided that at least eleven units must be offered in groups I-V:

*Subjects:*

Group I, English—		Units* Required	
Literature and composition.....	3-4	3	
Group II, Foreign Languages—			
Latin .....	1-4		
Greek .....	1-3		
French and German.....	1-4	2†	
Other foreign languages.....	1-4		
Group III, Mathematics—			
Elementary algebra .....	1	1	
Advanced algebra .....	½-1		
Plane geometry .....	1	1	
Solid geometry .....	½		
Trigonometry .....	½		
Group IV, History—			
Ancient history .....	½-1	1	
Medieval and modern history.....	½-1		
English history .....	½-1		
American history .....	½-1		
Civil government .....	½-1		
Group V, Science—			
Botany .....	½-1	1	
Zoology .....	½-1		
Chemistry .....	1		
Physics .....	1		
Physiography .....	¼-1		

\* A unit is the credit value of at least thirty-six weeks' work of four or five recitation periods per week, each period to be not less than 45 minutes. A point is a subject pursued through one-half the above time. Two points may be considered the equivalent of one unit.

† Both of the required units of foreign languages must be of the same language, but the two units may be presented in any one of the languages specified.

	Units*
Physiology .....	$\frac{3}{2}$ -1
Astronomy .....	$\frac{1}{2}$
Geology .....	$\frac{3}{2}$ -1
Group VI, Miscellaneous—	
Agriculture .....	1-2
Bookkeeping .....	$\frac{3}{2}$ -1
Business law .....	$\frac{1}{2}$ -1
Commercial geography .....	$\frac{3}{2}$ -1
Domestic science .....	1-2
Drawing, freehand and mechanical.....	$\frac{3}{2}$ -2
Economics and economic history.....	$\frac{1}{2}$ -1
Manual training .....	1-2
Music: Appreciation and harmony.....	1-2

## College Work

	Semester hours required
Chemistry .....	12
Physics .....	8
Biology .....	8
English .....	6
Electives .....	26

*Chemistry.*—Of the twelve semester hours required, eight hours must be made up of general inorganic chemistry (including four semester hours of laboratory work). Qualitative analysis may be counted as general inorganic chemistry. The remaining four semester hours must consist of organic chemistry, including two semester hours of laboratory work.

*Physics.*—The eight semester hours required must include at least two semester hours in laboratory work. It is urged that this course be preceded by a course in trigonometry.

*Biology.*—Eight semester hours required, of which four must consist of laboratory work. This requirement may be satisfied by a course of eight semester hours in either general biology or zoology or by a course of four semester hours each in zoology and botany, but not by botany alone.

*English Composition and Literature.*—The usual introductory college course of six semester hours, or its equivalent, is required.

*Modern Foreign Language.*—A reading knowledge of a modern foreign language, preferably French or German, is required.

*Electives.*—It is recommended that the twenty-six semester hours required include a modern foreign language, comparative vertebrate anatomy, social science and psychology.



A semester hour is the credit value of one-half year's work consisting of one lecture or recitation period per week, each period to be not less than fifty minutes net; at least two hours of laboratory work to be considered as the equivalent of one lecture or recitation period; and the year to be not less than thirty-three weeks of actual work.

The laws relating to the preliminary educational qualifications required of physicians differ in many of the States, and candidates are advised that if they meet the pre-medical and other requirements of this School they will be able to comply with the legal demands of all State Examining Boards in the United States. Any admission standard lower than that of this School will not meet the requirements of all the States of the Union.

#### Special Course for Admission to the Medical School

Courses are offered by the University to meet the required two years of college work necessary to enter the freshman class in Medicine.

	SEMESTER HOURS
<i>First Year</i>	
Chemistry 3 or 4.....	10 or 8
Zoology 3 .....	8
English 1 or 2.....	6
*Electives (including preferably French or German).....	6 or 8
Total.....	30
<i>Second Year</i>	
Physics 3 and 4.....	10
Chemistry 15.....	6
*Electives .....	14
Total.....	30

#### Course Leading to Degree Offered by the University in Addition to the Course for the Degree of Doctor of Medicine

The University offers a seven-year course for the degree of Bachelor of Arts and Doctor of Medicine.

#### ADMISSION TO COLUMBIAN COLLEGE

Applicants for admission to the Freshman Class in Columbian College for the combined course leading to the degrees of Bachelor of Arts and Doctor of Medicine must meet the general admission requirements of fifteen units. A unit represents a year's study in any subject in a

\* Total electives must include at least twelve semester hours in subjects other than Natural Science.

secondary school, constituting approximately a quarter of a full year's work. The fifteen units of the entrance requirements must include English, 3 units; Mathematics,  $2\frac{1}{2}$  units, and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

#### Seven-Year Course for the Degrees of Bachelor of Arts and Doctor of Medicine

Regular students in this course must complete at least ninety semester hours of prescribed college work and the first-year course in the Medical School. On completion of the prescribed work and the first year of the regular course in Medicine the student will receive the degree of Bachelor of Arts.

The hours of prescribed work, of which at least eighteen semester hours and one year in residence must be completed in Columbian College, are as follows:

SUBJECT:	SEMESTER
	HOURS
Zoology 3 .....	8
Chemistry 3 or 4, and 16.....	16 or 14
English .....	6
Modern Languages, preferably French or German.....	12
Physics 3 and 4.....	10
Psychology .....	6
Electives (including not to exceed thirty semester hours in Medicine) .....	62 or 64
Total.....	120

#### Admission of Students From Other Schools

Students who have satisfactorily attended one or more terms at any other Class A medical school, and who have the necessary preliminary educational requirements, may be admitted to advanced standing.

Students who have been in attendance upon an Arts course in other accredited colleges or universities may be admitted to advanced standing in any of the pre-medical courses offered by the University upon examination or upon presentation of properly certified evidence of satisfactory completion of work for which credit is asked.

Students approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students to any of the courses, provided they have the educational attainments which will enable them to pursue properly the studies they elect.



## ACADEMIC YEAR

The *Academic Year* is divided into two half-years of four months each.

The term of study for the degree of Doctor of Medicine consists of four years of thirty-two weeks each, exclusive of vacations and holidays. The next session, the one hundred and third, begins September 21, 1927, and ends June 13, 1928.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

## SYSTEM OF INSTRUCTION

Instruction is carried on by laboratory work, lectures, recitations, conferences, bedside instruction, and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinical material in the University Hospital and Dispensary is utilized to the fullest extent, as the Hospital, the Dispensary, and the Medical School are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While close relation of the laboratories with clinics is maintained and the greatest stress is laid upon laboratory work and clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine. To this end didactic lectures and conferences are maintained as they have been found necessary to give a systematic and comprehensive idea of the subjects in medicine.

*The policy adopted by the School is to give a comprehensive, well-graded and well-proportioned course—one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Medical Examining Boards.*

## ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table. Major subjects are in italics:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<i>Anatomy.</i> <i>Histology.</i> <i>Embryology.</i> <i>Physiology.</i> <i>Chemistry.</i> <i>Ethics.</i>	<i>Anatomy.</i> <i>Pathology.</i> <i>Bacteriology.</i> <i>Materia Medica.</i> <i>Pharmacology.</i> <i>Minor Surgery.</i> <i>Physical</i> <i>Diagnosis.</i> <i>Physiology.</i> <i>Preventive</i> <i>Medicine and</i> <i>Hygiene.</i> <i>Clinical</i> <i>Chemistry.</i>	<i>Medicine.</i> <i>Surgery.</i> Fractures and Dislocations. <i>Clinical</i> <i>Microscopy.</i> <i>Obstetrics.</i> <i>Therapeutics.</i> Roentgenology. Anaesthesia. <i>Gynecology.</i> <i>Medical</i> <i>Jurisprudence.</i> Gross Pathology. Dermatology. Pediatrics. Tropical <i>Medicine.</i> <i>Clinics.</i>	<i>Clinical</i> <i>Medicine.</i> <i>Surgery.</i> Orthopedics. Urology. <i>Military.</i> <i>Surgery.</i> <i>Obstetrics.</i> <i>Gynecology.</i> Otolaryngology. Ophthalmology. <i>Psychiatry.</i> <i>Neurology.</i> <i>Ethics.</i> <i>Clinics.</i>

The *clinics* above listed comprise the medical, surgical, obstetrical and other clinics given in the third and fourth years, and are as hereafter noted under the announcements of the different clinical subjects.

Students in the medical unit, Reserve Officers' Training Corps, have one additional hour per week of instruction in medico-military subjects.



## FIRST YEAR SCHEDULE

## First Trimester (Sept. 24-Dec. 31)

<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-10 Military Science and Tactics
1-2 Physiology		1-2 Physiology		1-2 Physiology	
2-5 Histology and Embryology	1-3 Chemistry	2-5 Histology and Embryology	1-3 Chemistry	2-5 Histology and Embryology	

## Second Trimester (Jan. 1-Mar. 15)

9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-10 Military Science
1-2 Physiology	1-5 Chemistry	1-2 Physiology	1-5 Chemistry	1-2 Physiology	
2-5 Histology and Embryology		2-5 Histology and Embryology		2-5 Histology and Embryology	

## Third Trimester (Mar. 16-June 9)

9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-12 Anatomy	9-10 Military Science
1-2 Physiology	1-2 Physiology	1-2 Physiology	1-2 Physiology	1-2 Physiology	
2-5 Histology and Embryology	2-5 Elective	2-5 Histology and Embryology	2-5 Elective	2-5 Histology and Embryology	

## SECOND YEAR

## First Trimester (Sept. 24-Dec. 31)

<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
9-12 Bacteriology and Immunology	9-12 Bacteriology and Immunology	9-12 Bacteriology and Immunology	9-12 Bacteriology and Immunology	9-12 Pharmacology	9-12 Physiology
1-3 Pharmacology	1-4 Neuro- Anatomy	1-2 Pharmacology	1-4 Neuro- Anatomy	1-12 Military Science and Tactics	
3-5 Physiology		2-5 Physiology		2-5 Physiology	

## Second Trimester (Jan. 1-Mar. 15)

9-12 Pathology	9-12 Pathology	9-12 Pharmacology	9-12 Pharmacology	9-12 Chemistry
1-4 Pharmacology	1-4 Pharmacology	1-4 Applied Anatomy	1-3 Military Science	
			2-5 Preventive Medicine and Hygiene	

## Third Trimester (Mar. 16-June 9)

9-1 Pathology	9-1 Pathology	9-12 Physical Diagnosis	9-12 Physical Diagnosis	9-12 Chemistry
2-3 Pharmacology	2-3 Physical Diagnosis	2-3 Pharmacology	1-3 Military Science	
3-4 Minor Surgery	3-4 Pharmacology	3-4 Minor Surgery		
4-5 Preventive Medicine and Hygiene	4-5 Preventive Medicine and Hygiene	4-5 Preventive Medicine and Hygiene	2-5 Gross and Neuro- Pathology	



# THIRD YEAR

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9 Medicine Recitation	8-9 Surgery	8-9 Pediatrics to Dec. 15		8-9 Pediatrics to Dec. 15	8-9 Medicine After Jan. 1
9-10 Military Science and Tactics	9-10 Medicine	9-10 Obstetrics		9-10 Medicine	9-12 Clinical Microscopy, Parasitology and Preventive Medicine
10-11 Obstetrics	10-11 Therapeutics	10-11 Surgery	10-11 Gynecology	10-11 Therapeutics	
11 30-2 University Hospital Dispensary 1 Section—8 Weeks	11 30-2 University Hospital Dispensary 1 Section—8 Weeks	11 30-2 University Hospital Dispensary 1 Section—8 Weeks	11 30-2 University Hospital Dispensary 1 Section—8 Weeks	11 30-2 University Hospital Dispensary 1 Section—8 Weeks	12 30-2 University Hospital Dispensary 1 Section—8 Weeks
11 11:5-1 Providence Hospital Dispensary 1 Section—8 Weeks	11 11:5-1 Providence Hospital Dispensary 1 Section—8 Weeks	11 11:5-1 Providence Hospital Dispensary 1 Section—8 Weeks	11 11:5-1 Providence Hospital Dispensary 1 Section—8 Weeks	11 11:5-1 Providence Hospital Dispensary 1 Section—8 Weeks	
12 30-2 Emergency Hospital Dispensary 1 Section—8 Weeks	12 30-2 Emergency Hospital Dispensary 1 Section—8 Weeks	12 30-2 Emergency Hospital Dispensary 1 Section—8 Weeks	12 30-2 Emergency Hospital Dispensary 1 Section—8 Weeks	12 30-2 Emergency Hospital Dispensary 1 Section—8 Weeks	12 30-2 Emergency Hospital Dispensary 1 Section—8 Weeks
1-2 30 Children's Hospital Dispensary 1 Section—8 Weeks After Feb. 15	1-2 30 Children's Hospital Dispensary 1 Section—8 Weeks After Feb. 15	1-2 30 Children's Hospital Dispensary 1 Section—8 Weeks	1-2 30 Children's Hospital Dispensary 1 Section—8 Weeks	1-2 30 Children's Hospital Dispensary 1 Section—8 Weeks After Feb. 15	1-2 30 Children's Hospital Dispensary 1 Section—8 Weeks
1-2 30 Surgical Clinic Providence Hospital 1 Section		1-2 30 Anesthesia Providence Hospital 1 Section			
3-4 Medicine Recitation	2-4 Physical Diagnosis Entire Class To Feb. 15	3-4 Dermatology to Jan. 1		2-4 Physical Diagnosis Entire Class To Feb. 15	
4-5 Tropical Medicine To Dec. 31		4-5 Anesthesia To Jan. 1 Medical Jurisprudence After Jan. 1	4-5 Medical Jurisprudence To Jan. 1 Roentgenology After Jan. 1		

## PROFESSIONAL DEPARTMENTS

## FOURTH YEAR

<i>Monda</i>	<i>Tuesday</i> 8-9 Gynecology	<i>Wednesday</i> 8-9 Laryngology To Feb. 1	<i>Thursday</i> 8-10 Medical Clinic Drs. Randolph, Mallory, Moore University Hospital Entire Class	<i>Friday</i> 8-9 Ophthalmology To Feb. 1	<i>Saturday</i> 8-9 Surgery Quia 9-10 Obstetrics
8-9-30 Surgical Clinic Dr. Borden University Hospital Entire Class	9-10 Obstetrics	9-10 Orthopedic Surgery	8-30-10 Medical Clinic Drs. Randolph, Mallory, Moore University Hospital Entire Class	9-10 Endocrinology To Dec. 1 Neuro-Surgery After Jan. 15	9-10 Obstetrics
10-1 Clinical Clerkship University Hospital Sections	10-1 Clinical Clerkship University Hospital Sections	10-1 Clinical Clerkship University Hospital Sections	11-30-1 Heart Clinic Dr. Lee Gallinger Hospital Sections	10-1 Clinical Clerkship University Hospital Section D	10-1 Clinical Clerkship University Hospital Sections
10-15-1 Clinical Clerkship Emergency Hospital Sections	10-15-1 Clinical Clerkship Emergency Hospital Sections	10-15-1 Clinical Clerkship Emergency Hospital Sections	10-15-12 Clinical Clerkship Emergency Hospital Sections	10-15-1 Clinical Clerkship Emergency Hospital Sections	10-30-12-30 Medical Clinic Dr. Pashby Tuberculosis Hospital Sections
10-30-1 Clinical Clerkship Providence Hospital Sections	10-30-1 Clinical Clerkship Providence Hospital Sections	10-30-1 Clinical Clerkship Providence Hospital Sections	10-30-12 Clinical Clerkship Providence Hospital Sections	10-30-1 Clinical Clerkship Providence Hospital Sections	12-30-3 E. N. & T. Clinic Dr. Dabney Episcopal Hospital Sections
10-15-1 Clinical Clerkship Garfield Hospital Sections	10-15-1 Clinical Clerkship Garfield Hospital Sections	10-15-1 Clinical Clerkship Garfield Hospital Sections	10-15-12 Clinical Clerkship Garfield Hospital Sections	10-15-1 Clinical Clerkship Garfield Hospital Sections	
10-30-12-30 Medical Clinic Dr. Thompson Providence Hospital Sections	10-30-12-15 Gynecol. Clinic Dr. Boyce Columbia Hospital Sections	10-15-12-15 Gynecol. Clinic Dr. Boyce Columbia Hospital Sections	10-15-12-15 Surgical Clinic Dr. Kerr Children's or Garfield Hospital Sections	10-15-12-15 Orthopedic Clinic Dr. Hall Children's Hospital Sections	
10-15-12-15 Pediatric Clinic Dr. Ong Children's Hospital Sections	10-15-12-15 Pediatric Clinic Dr. Ong Children's Hospital Sections	10-15-11-45 Orthopedic Clinic Dr. Shands Emergency Hospital Sections	10-45-12-15 Gallinger Hospital Heart Clinic Dr. Lee Sections	10-15-12-15 Welfare Clinic Dr. Brooks Children's Hospital Sections	
11-15-12-30 Obstetrical Clinic Dr. Lawson and Assta. Columbia Hospital Sections					



1-2 Allergy Clinic Dr. Bernton Emergency Disp. Sections	12-1 Medical Clinic Dr. Tenckhoff Tuberculosis Hospital Sections	12-30-3 E. N. & T. Clinic Dr. Dabney Episcopal Hospital Sections	11-15-12 Obstetrical Clinic Dr. Lawson and Aasta. Sections	1-2 Roentgenology Clinic Dr. Coe Emergency Hospital Sections	1-2 Neurology Clinic Dr. Stout Emergency Dispensary Sections
1-2 Fracture Clinic Dr. Ledbetter Emergency Disp. Sections	1-30-2-45 Pediatric Clinic Dr. Donnelly Children's Hospital Entire Class	1-2 Gynecol. Clinic Dr. Riddick Emergency Disp. Sections	2-4 Psychiatric Clinic St. Elizabeths Hospital Half the Class	Fracture Clinic Dr. Ledbetter Emergency Dispensary Sections	
2-4 Gynecol. Clinic Columbia Hospital Special Schedule	2-4 Ophthalmol. Clinic Dr. Davis Episcopal Hospital Sections	1-2 Neurology Clinic Dr. Stuart Children's Dispensary Sections	2-4 Clin.-Path. Conference Drs. Friedman and Eldridge St. Elizabeths Hospital Half the Class	2-4 Ophthalmol. Clinic Dr. Davis Sections	
3-4 Pathological Conference		1-30-2-30 Ophthalmol. Clinic Dr. Henning Episcopal Hospital Sections		1-2-30 Dermatol. Clinic Dr. Simpson Children's Hospital Dispensary Sections	1-30-2-30 Ophthalmol. Clinic Dr. Henning Episcopal Hospital Sections
4-5 Surgery	4-5 Military Science	3-4 Surgery	4-5 Genito-Urinary Surgery	4-5 Neurology	
			4-5 Psychiatry Jan. 1-Mar. 31		

# OUTLINE OF CURRICULUM

## Hours of Required Work in Each Subject

(On the basis of 32 actual weeks in each year)

SUBJECT	YEARS	HOURS	
		Totals*† Didactic, Lab. and Clinical	Didactic not to exceed
Anatomy.....	I	480	60
Anatomy.....	II	132	30
		— 612	— 90
Histology and Embryology.....	I	280	60
		— 280	— 60
Chemistry.....	I	180	60
		— 180	— 60
Physiology.....	I	116	116
Physiology.....	II	144	—
		— 260	— 116
Bacteriology.....	II	144	30
Pathology.....	II	320	60
Preventive Medicine and Hygiene.....	II and III	64	22
		— 528	— 112
Pharmacology.....	II	180	74
Therapeutics.....	III	32	32
		— 212	— 106
Gynecology.....	III and IV	112	64
		— 112	— 64
Obstetrics.....	III and IV	238	128
		— 238	— 128
Medicine.....	II, III, IV		
General Medicine, including Endocrinology and Dietetics.....		666	160
Clinical Microscopy and Parasitology.....		72	24
Physical Diagnosis.....		140	12
Tropical Diseases.....		12	12
Dermatology and Syphilis.....		40	16
Pediatrics.....		160	24
Nervous and Mental Diseases.....		132	52
Medical Jurisprudence.....		23	23
Clinical Chemistry.....		48	12
		— 1293	— 335
Surgery.....	II, III, IV		
General Surgery, including Minor Surgery, Military Surgery, Fractures and Anaesthesia.....		484	148
Roentgenology.....		36	14
Ophthalmology.....		60	18
Otolaryngology.....		56	28
Urology.....		52	28
Orthopedics.....		57	24
		— 745	— 260
Grand totals.....		4470	1311

\* In the third and fourth years, each student is required to do satisfactorily considerable practical work; he is assigned to cases in hospitals, is required to assist at operations, to attend cases of labor, administer anaesthetics, attend autopsies and to take case histories.

† Subject to variation.



## DIVISION OF ANATOMY

GEORGE B. JENKINS, M.D.	<i>Professor and Chief of the Division</i>
WILLIAM BINFORD KING, M.D.	<i>Associate Professor</i>
GEORGE J. BRILMYER, M.D.	<i>Associate Professor</i>
OTHMAR SOLNITZKY, M.D.	<i>Associate Professor</i>
JOSEPH STEIN, M.D.	<i>Instructor</i>

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Gross Anatomy .....	I	480	60
Neuro and Topographical Anatomy	II	132	30
Histology and Embryology.....	I	280	60
		— 892	— 150

The work in general anatomy is designed to cover the entire subject in such manner as to afford the student a practical working basis for his later studies in medicine and is so correlated and taught as to emphasize the value of relation and function as well as that of structure.

Frequent demonstrations are given and conferences are held by members of the Division, individual work is encouraged and to those students who demonstrate especial fitness, opportunities for advanced work are offered. Research is encouraged and qualified students will be aided in every way possible.

The following courses are offered:

(1) *Gross Anatomy.*

This includes careful dissection and study of the entire body during the first year, excepting the central nervous system. The study of the more difficult parts such as the special sense organs and viscera is supplemented by the use of models and prepared specimens.

Osteology and Arthrology are studied during dissection, supplemented by a short laboratory course in the study and drawing of prepared specimens.

(2) *Microscopic Anatomy and Embryology.*

This includes normal Histology and Embryology; and, while these courses are taught separately, they are so correlated as to show the structural units of the body developmentally, their morphology and arrangement and their relations to each other and to other structural units in the construction of the tissues and organs, so that this study may constitute a proper basis for Gross Anatomy, Physiology, Pathology, and the clinical branches.

(3) *Neuro-Anatomy* is taught in the second year by study, both gross and microscopic, of the central nervous system. Abundant

material is provided, and models, diagrams and lantern projections are freely used.

(4) *Topographical Anatomy* is given by a study-room course in drawing and studying prepared specimens, cross-sections and other materials.

(5) *Clinical and Applied Anatomy (Elective)*.

A series of demonstrations with study-room facilities is given to correlate the general anatomy of selected regions with the needs of the clinician.

#### DIVISION OF PHYSIOLOGY, PHARMACOLOGY AND THERAPEUTICS

GEORGE B. ROTH, M.D.....*Professor and Chief of the Division*  
 LESLIE HOWSON FRENCH, M.D.....*Professor of Physiology*  
 HENRY COOK MACATEE, M.D.....*Professor of Therapeutics*  
 JAMES HOLMES DEFANDORF, A.M.....*Associate Professor of Pharmacology*

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Physiology .....	I	116	116
Physiology .....	II	144	
		— 260	— 116
Pharmacology .....	II	180	74
Therapeutics .....	III	32	32
		— 212	— 106

#### PHYSIOLOGY

LESLIE HOWSON FRENCH, M.D.....*Professor*  
 ROBERT J. BOSWORTH, M.D.....*Associate Professor*

Instruction in Physiology begins in the First Year and is continued throughout the first trimester of the Second Year. The subject is presented, as far as practicable, as an exact science although the clinical aspects of physiology are always kept in the foreground.

Courses in Physiology are grouped as follows:

##### *Course I—First Year.*

Didactic Physiology. Course of systematic lectures, recitations, and conferences covering the physiology of Muscle, Nerve, Blood, Lymph, Circulation, Respiration, Digestion, Excretion, Secretion, Metabolism, Central Nervous System, Special Senses.



*Course 2—Second Year.*

Experimental Physiology. The experiments are selected to illustrate the fundamental principles of physiology and to impress the student with the importance of observation and correlation. Quizzes and conferences precede each laboratory period.

The course includes a theoretical and practical study of the Electrocardiograph, Polygraph and Metabolic and Gas Analysis apparatus.

## PHARMACOLOGY

GEORGE B. ROTH, M.D. .... *Professor*

JAMES HOLMES DEFENDORF, A.M. .... *Associate Professor*

The following courses in Pharmacology are designed to give the student a knowledge of drugs which is obtained from precise methods of observation. Facts concerning the physico-chemical character and clinical uses of drugs are taught by means of lectures, recitations, laboratory exercises, demonstrations and conferences.

*Course 1. Chemical Pharmacology and Principles of Prescription Writing.—Second year, first trimester.*

This course aims to teach the elements of the pharmacy of the more important medicinal agents and to acquaint the student with the fundamentals underlying the chemical incompatibilities of drugs. The characteristic reactions of the more common constituents in drugs are emphasized and the excretion of certain drugs in man is investigated.

The drill in prescription writing accompanies the exercises in chemical pharmacology and endeavors to apply the chemical facts previously learned.

*Course 2. Pharmacodynamics and Principles of Prescription Writing.—Second year, second trimester.*

The instruction in Pharmacodynamics consists of demonstrations and student experiments to illustrate the biological effects and nature of the action of the more important pharmacological agents, proceeding from the simple to the more complex tissues and finally to the organism as a whole. If possible, the site of the action of the drug is ascertained, thus affording a rational basis for its use in therapeutics. The drill in prescription writing follows the same plan as outlined in Course 1.

*Course 3. Systematic Pharmacology.—Second year.*

This is a didactic course, supplemented by demonstration, which correlates the most prominent facts relating to the more important therapeutic agents and brings them into more intimate connection with their clinical use, special consideration being given to the drugs found in the United States Pharmacopoeia and New and Non-Official Remedies.

*Course 4—Pharmacological Investigation (elective).* Second Year, third trimester.

This course is open only to students who have shown especial aptitude in courses 1, 2 and 3 and gives opportunity to become further acquainted with the modern methods of investigating pharmacological problems.

Students allowed to take this course may select a subject for work under supervision.

### THERAPEUTICS

HENRY COOK MACATEE, M.D.....*Professor*

(1) Systematic lectures and recitations on the physiological action of drugs and other remedial agents, their therapeutic use in disease; their modes of administration; and a review of their toxicology.

(2) Lectures in applied therapeutics, devoted to the study of the application of remedial measures to morbid physiological and pathological states, as they occur clinically.

### DIVISION OF CHEMISTRY

JOSEPH HYRAM ROE, Ph.D.....*Professor and Chief of Division*

OLIVER JOHN IRISH, M.S.....*Associate Professor*

JAMES IRVING BOYD, A.B., M.D.....*Associate Professor*

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Chemistry .....	I	180	60
Clinical Chemistry .....	II	60	20

The instruction in Chemistry consists of lectures, recitations, laboratory work, demonstrations, and informal conferences.

The following courses are offered:

1. *Physical Chemistry and Quantitative Principles.* A series of lectures, supplemented by laboratory work, upon such subjects as hydrogen ion concentration, indicators, methods of quantitative analysis, dialysis, osmosis, colloids, enzymes, radioactivity, and the structure of the atom. This course lasts about six weeks.

2. *Physiological Chemistry.* After the above preliminary training physiological chemistry is considered for the remainder of the year. This course consists of a study of the chemical structure and reactions of carbohydrates, fats and proteins; the composition of the tissues of the body, and of milk, urine, and the secretions; the digestion, absorption, and assimilation of foods; metabolism; the basic principles of nutrition. The laboratory work is planned to supple-



ment the lectures by a qualitative and quantitative study of the substances and physiological processes discussed, concluding with special experiments in metabolism.

3. *Clinical Chemistry.* A lecture and laboratory course in the biochemical methods of analysis used as aids in the diagnosis of disease. This consists of the usual qualitative and quantitative methods of analysis of urine, blood, gastric juice, and alveolar air; the kidney and liver function tests; and the interpretation of laboratory findings with respect to diseased conditions. These studies are carried out upon pathological material from the University Hospital and other sources.

#### DIVISION OF BACTERIOLOGY, PATHOLOGY, PREVENTIVE MEDICINE AND HYGIENE

OSCAR BENWOOD HUNTER, A.M., M.D. *Professor and Chief of Division*

TOMÁS CAJIGAS, M.S., M.D. *Professor of Pathology*

WALTER FREEMAN, A.B., M.D. *Professor of Neuro-Pathology*

JOHN HARPER, M.D. *Professor of Preventive Medicine and Hygiene*

HERBERT MARTYN, M.D. *Instructor in Morbid Anatomy*

CLIFT P. BERGER, A.M. *Instructor in Bacteriology*

LAURA S. CHADDOCK, R.N.,

*Instructor in Bacteriology and Clinical Microscopy*

MARY G. WOLFORD, R.N.,

*Instructor in Bacteriology and Clinical Microscopy*

WILLIAM F. SHERIDAN *Instructor in Pathology*

THOMAS J. SHIVERS *Instructor in Laboratory Technique*

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Bacteriology	II	144	30
Pathology	II	320	60
Preventive Medicine and Hygiene	II, III	64	22
Clinical Microscopy and Parasitology	III	72	24

#### BACTERIOLOGY

The didactic portion of the course in Bacteriology consists of a series of about thirty lectures and quizzes, in which the entire field of bacteriology, including immunology in its application to human medicine and welfare, is considered. The first few lectures are necessarily limited to the consideration of the general principles of the science, after which the pathogenic microorganisms are discussed in a systematic sequence, with the theories of immunity treated of in appropriate places.

In the laboratory portion of the course which occupies about three-quarters of the total time devoted to the subject the students first prepare all the standard culture media and learn the general principles of bacteriologic technic from the study of about a dozen typical, widely different non-pathogenic organisms. Subsequently, about fifty pathogenic bacteria are carefully examined by microscopic, cultural and serologic methods. The students prepare as far as practicable such special media as are needed for this latter work. In addition to this systematic examination of characteristic organisms the students test the efficiency of the commonly employed germicides, prepare a vaccine, and in groups prepare agglutinating, hemolytic and other immune serums and use these as commonly employed in diagnosis. In connection with the preparation of culture media the principles of sterilization are covered. In the microscopic examination of bacteria the students are trained in the use of the high powers of the microscope, in the use of dark ground illumination, and are taught to make microscopic measurements.

During the course where occasion arises in connection with special cases of interest in the University Hospital or elsewhere unusual infections or rarely occurring processes of diagnosis, etc., are demonstrated. The routine bacteriologic and serologic work of the Hospital is done in the same laboratory where the students are working so that they have ample opportunity to observe the practical application of bacteriology.

#### PATHOLOGY

In Pathology the division of the course into laboratory and lecture teaching is followed, the amount of time devoted to each being about twice the corresponding time in Bacteriology. General pathology, covering inflammation, repair, degenerations, the effects of plant (including bacteria) and animal parasites on the body, the effect of chemical and physical agents, the formation of new growth, etc., is first considered. This is followed by the special pathology of the organs and of the specific diseases.

The laboratory work consists primarily in the histologic study of diseased tissues and neoplasms. Between two and three hundred sections are stained, mounted and loaned to each student. These sections are carefully examined and studied by the student who makes colored pencil drawings of the characteristic lesions shown by them.

Each student is required to freeze, section, stain and diagnose a number of tissues until he becomes thoroughly familiar with frozen section technique.

The microscopic study is supplemented by that of material from the operating room, post-mortem and by specimens in the museum, thus giving a knowledge of gross morbid anatomy.



The class is divided into groups and are called from time to time for necropsies as may be performed by members of the staff at different hospitals and undertakers' establishments. Amphitheatre necropsies are held regularly at the University Hospital in which the clinicians and pathologists participate in the discussions and elucidation of the findings.

At St. Elizabeth's Hospital, under Dr. Freeman, students have an excellent opportunity for training in gross and neuro-pathology.

#### CLINICAL MICROSCOPY AND PARASITOLOGY

In the course in Clinical Microscopy the student is trained in the counting of the red and white blood cells, in the various methods of hemoglobin estimation, in differential leucocyte counting, in the study of malarial parasites, and such other parasites of the blood as opportunity affords, in the estimation of the coagulation time of the blood, etc., in the microscopic study of the sediments in normal and pathologic urines, in the microscopic examination of stomach contents, of the feces, including a detailed study of animal parasites and their life histories, which are of interest from a medical standpoint, beginning with the protozoa and passing through the helminths and arthropods, in the microscopic examination of sputum, of spinal fluids, pleural exudates, etc., as material and opportunities afford. The venomous animals and their venoms are also studied and the problems of immunity in this group are discussed. The significance and value of these findings as applied to pathology and diagnosis are considered.

#### PREVENTIVE MEDICINE AND HYGIENE

The course in Preventive Medicine and Hygiene consists of lectures and recitations, laboratory work, sanitary excursions and sanitary surveys. The lectures and recitations cover the field of preventive medicine and hygiene, including personal hygiene, in a systematic way, using the standard text-books for the basic reading. The laboratory instruction consists of laboratory work and demonstrations in public health laboratory methods and in physiological hygiene. The sanitary excursions include visits to the two principal types of water treatment plants, sewage treatment works, refuse disposal plants, dairy, pasteurization plant, schools, various industrial plants, and a county health organization. A study will be made of the organization and functioning of a city health department; and the students will make sanitary surveys of small towns.

## DIVISION OF MEDICINE

BUCKNER MAGILL RANDOLPH, M.D.,

*Professor of Clinical Medicine and Chief of the Division*WILLIAM JOHNSTON MALLORY, M.D.....*Professor of Medicine*WILLIAM CABELL MOORE, M.D.....*Professor of Medicine*COURSEN BAXTER CONKLIN, M.D.....*Professor of Physical Diagnosis*WILLIAM A. BLOEDORN, M.D.....*Professor of Tropical Medicine*WILLIAM ALAMSON WHITE, M.D.....*Professor of Psychiatry*JOSEPH DUERSON STOUT, M.D.....*Professor of Neurology*HENRY COOK MACATEE, M.D.....*Professor of Therapeutics*HARRY HAMPTON DONNALLY, M.D.....*Professor of Pediatrics*C. AUGUSTUS SIMPSON, M.D.....*Professor of Dermatology*JOHN PAUL EARNEST, JR., M.D.....*Professor of Medical Jurisprudence*ROSCOE W. HALL, M.D.....*Associate Professor of Psychiatry*HARRY A. ONG, M.D.....*Associate Professor of Pediatrics*J. LAWN THOMPSON, M.D.....*Clinical Professor of Medicine*THOMAS S. LEE, M.D.....*Clinical Professor of Medicine*WILLIAM D. TEWKSBURY, M.D.....*Clinical Professor of Medicine*THOMAS A. CLAYTOR, M.D.....*Clinical Professor of Medicine*GEORGE N. ACKER, 2ND, M.D.....*Clinical Professor of Medicine*

NOLAN DON CHARPENTER LEWIS, M.D.,

*Clinical Professor of Psychiatry*MARY O'MALLEY, M.D.....*Associate in Psychiatry*DANIEL C. MAIN, M.D.....*Associate in Psychiatry*FRANK ADELBERT HORNADAY, M.D.....*Associate in Medicine*WILLIAM WATSON ELDRIDGE, M.D.....*Associate in Medicine*PRESTON ALEXANDER MCLENDON, M.D.....*Associate in Pediatrics*GRAFTON TYLER BROWN, M.D.....*Associate in Medicine*JOHN E. LIND, M.D.....*Clinical Associate in Psychiatry*BENJAMIN F. WEEMS, M.D.....*Clinical Associate in Physical Diagnosis*DANIEL D. V. STUART, JR., M.D.....*Clinical Associate in Neurology*HENRY R. SCHREIBER, M.D.....*Clinical Associate in Medicine*JOSEPH WINTHROP PEABODY, M.D.....*Clinical Associate in Medicine*

SUBJECT	YEARS	HOURS	
		Total Didactic and Lab.	Didactic not to exceed
Medicine .....	II, III, IV		
General Medicine .....		666	160
*Clinical Microscopy .....		72	24
†Clinical Chemistry .....		48	12
Physical Diagnosis .....		140	12
Tropical Diseases .....		12	12
Dermatology and Syphilis.....		40	16
Nervous and Mental Diseases...		132	52
Pediatrics .....		160	24
Medical Jurisprudence .....		23	23
		—1293	— 335

\* See also announcement under Bacteriology and Pathology.

† See also announcement under Chemistry.



Instruction in Medicine is so given as to conform to the most modern requirements. The work begins in the second year with a complete course in history-taking and normal physical diagnosis, and is continued through the third and fourth years. During the last two years the course consists of lectures, recitations, a study of case histories, clinical and clinico-pathological conferences, and practical work in the clinical laboratory and at the bedside.

The third year class is divided into small sections, which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the ward clinics in the University Hospital, the Garfield Memorial Hospital, Children's Hospital, Providence Hospital, St. Elizabeth's Hospital, and the Tuberculosis Hospital of the District of Columbia and others.

The system of ward clinics to small groups of students affords a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of their illness; in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to one, or at most, two senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheatre clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of clinics in neurology and psychiatry is provided for the senior class at the St. Elizabeth's Hospital, where there is a great wealth of material (see announcement of Psychiatry and Clinical Neurology).

The subject of diatetics is thoroughly covered by instruction in the physiology of nutrition and principles of feeding in health and disease.

#### PHYSICAL DIAGNOSIS

COURSEN BAXTER CONKLIN, B.S., M.D.	Professor
BENJAMIN F. WEEMS, M.D.	Clinical Associate
WILLIAM McCORMICK BALLINGER, B.S., M.D.	Clinical Instructor

Systematic instruction in physical diagnosis is given by a special group of teachers.

Students in the second year receive thorough practical training in normal findings as a basis. In the third year, section and individual instruction is given in cases where the physical findings have been

already determined, and in the fourth year, cases are assigned to students for examinations after which the students' findings are checked for accuracy by the instructors.

#### TROPICAL MEDICINE

WALTER A. BLOEDORN, M.D.,

*Commander, Medical Corps, U. S. N., Professor*

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

#### PSYCHIATRY AND CLINICAL NEUROLOGY

WILLIAM ALANSON WHITE, M.D., Superintendent of Saint

Elizabeth's Hospital ..... *Professor*

JOSEPH DUERSON STOUT, M.D. .... *Professor of Neurology*

ROSCOE W. HALL, M.D. .... *Associate Professor*

NOLAN DON CHARPENTIER LEWIS, M.D., *Clinical Professor of Psychiatry*

MARY O'MALLEY, M.D. .... *Associate*

DANIEL C. MAIN, M.D. .... *Associate*

JOHN E. LIND, M.D. .... *Clinical Associate in Psychiatry*

A series of lectures and clinics upon psychosis and neurology in various forms are given at Saint Elizabeth's Hospital which, with its more than four thousand beds, affords one of the largest clinics in this country.

#### NEUROLOGY

JOSEPH DUERSON STOUT, M.D. .... *Professor*

The course in Neurology consists of one lecture a week during the school year and two hours of clinical teaching in the Dispensary and wards of the Emergency Hospital, with the demonstration of selected cases. This is given in the fourth year. In addition, there is a neurological clinic of one hour at the George Washington University Dispensary, where cases are demonstrated to the third-year class.

In the lecture course in the fourth year a survey of the functions and disease of the glands of internal secretions and of the diseases of the nervous system, not including the psychoses and other mental states.

#### PEDIATRICS

HARRY HAMPTON DONNALLY, A.M., M.D. .... *Professor*

HARRY A. ONG, M.D. .... *Associate Professor*

PRESTON A. McLENDON, M.D. .... *Associate*

Third Year—Hours: Didactic, 27.

Fourth Year—Hours: Clinical, 136.



The teaching of pediatrics is made as practical as possible by having nearly all the classes in the Children's Hospital. A large outpatient service and the patients in hospital are utilized for instruction in the prevention, diagnosis, and management of the diseases of infancy and childhood. The subject of nutrition is emphasized, and practical application of its principles studied in the baby ward and child welfare clinic. Care and feeding of premature and delicate infants are observed in a specially fitted warm-room. Small classes at the bedside and in the dispensary give close contact with patients and almost individual instruction.

#### ALLERGY

GRAFTON TYLER BROWN, M.D. .... *Associate*

A short course of lectures is delivered in the Senior Year on Allergy in asthma, hay-fever and allied conditions.

#### DERMATOLOGY

C. AUGUSTUS SIMPSON, M.D. .... *Professor*

The lectures in this course will be principally clinical, supplemented by didactic lectures, illustrated by diagrams, models, and photographic illustrations of disease from life.

#### MEDICAL JURISPRUDENCE

JOHN PAUL EARNEST, JR., M.D. .... *Professor*

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

## DIVISION OF SURGERY

WILLIAM CLINE BORDEN, M.D.	Professor and Chief of the Division
CHARLES STANLEY WHITE, M.D.	Professor of Surgery
DANIEL LERAY BORDEN, M.D.	Professor of Surgery
HARRY HYLAND KERR, M.D.	Professor of Neuro-Surgery
OTTO NELLIS WARNER, M.D.	Professor of Anaesthesia
FRANCIS RANDALL HAGNER, M.D.	Professor of Urology
CUSTIS LEE HALL, M.D.	Professor of Orthopedic Surgery
SEWALL MUNSON CORBETT, M.D.	Professor of Military Surgery
WILLIAM THORNWALL DAVIS, M.D.	Professor of Ophthalmology
VIRGINIUS DABNEY, M.D.	Professor of Oto-Laryngology
ARTHUR C. CHRISTIE, M.D.	Professor of Roentgenology
WILLIAM BERRY MARBURY, M.D.	Associate Professor of Surgery
EDWIN A. MERRITT, M.D.	Associate in Roentgenology
WILLIAM H. HOUGH, M.D.	Associate Professor of Syphilography
THOMAS A. GROOVER, M.D.	Associate Professor of Roentgenology
AURELIUS RIVES SHANDS, M.D.	Clinical Professor of Orthopedic Surgery
JAMES E. MITCHELL, M.D.	Clinical Professor of Surgery
CARL HENNING, M.D.	Clinical Professor of Ophthalmology
HOMER F. FULLER, M.D.	Clinical Professor of Urology
CLINE N. CHIPMAN, M.D.	Associate in Anaesthesia
CHARLES W. HYDE, M.D.	Associate in Anaesthesia
FRANCIS G. SPEIDEL, M.D.	Associate in Anaesthesia
EARL GRIFFITH BREEDING, M.D.	Associate in Oto-Laryngology
JOHN H. LYONS, M.D.	Associate in Surgery
RALPH S. PENDEXTER, M.D.	Associate in Ophthalmology
F. AUGUST REUTER, M.D.	Clinical Associate in Urology
GUY W. LEADBETTER, M.D.	Clinical Associate, Orthopedic Surgery
WILLIAM H. JENKINS, M.D.	Clinical Associate in Oto-Laryngology

SUBJECT	YEARS	HOURS	
		Total Didactic and Lab.	Didactic not to exceed
Surgery .....	II, III, IV		
General Surgery, including Minor Surgery, Military Sur- gery, Fractures and Anaes- thesia .....		484	148
Roentgenology .....		36	14
Ophthalmology .....		60	18
Laryngology and Otology.....		56	28
Genito-Urinary Surgery.....		52	28
Orthopedics .....		57	24
		— 745	— 260



The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the Faculty, is directly used throughout the course to illustrate the subject taught and to familiarize the students with actual clinical conditions. Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anaesthetics.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the Faculty are attached.

Ward clinics and bedside instruction are made a prominent part of the course. The classes are divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals and dispensaries. Senior students are assigned in rotation to individual cases in the wards of the University Hospital.

Amphitheatre clinics are given, in which the general practice of surgical diagnosis, operative technique and therapeutic procedures are shown.

Practical work is required of each student in the preparation of dressings and sterilization of instruments. Each student is required to give, under instruction, at least six anaesthesias and to assist in at least six operations.

#### ORTHOPEDICS

CUSTIS LEE HALL, M.D.	Professor
AURELIUS RIVES SHANDS, M.D.	Clinical Professor
GUY W. LEADBETTER	Clinical Associate

A course of lectures and recitations on the etiology, pathology, course, termination and treatment of congenital and acquired diseases of the bones and joints, with clinical instruction in the operations for the relief and correction of deformities, and the use of special apparatus and plaster of Paris.

#### GENITO-URINARY DISEASES

FRANCIS RANDALL HAGNER, M.D.	Professor
HOMER GIFFORD FULLER, M.D.	Clinical Professor
F. AUGUST REUTER, M.D.	Clinical Associate

A thorough course of instruction in genito-urinary diseases is given by lectures, recitations, section clinics, and bedside teaching.

### MILITARY SURGERY

SEWELL MUNSON CORBETT, M.D., Major, Med. Corps, U. S. A.,

*Professor*

The treatment of gunshot wounds with special reference to civil and military practice is given in a course of lectures and demonstrations, fully illustrated by lantern slides, X-ray photographs, and actual specimens.

The use of the new armaments in recent wars and the characteristic features of the wounds caused by them, as well as the treatment of gunshot wounds in peace and war, are dealt with.

### OPHTHALMOLOGY

WILLIAM THORNWALL DAVIS, M.D. *Professor*

CARL HENNING, M.D. *Clinical Professor*

RALPH S. PENDexter, M.D. *Associate*

A course of lectures is given on the elementary principles of this subject, together with special instruction in the anatomy and physiological action of the more intricate parts of the eye. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction in the University Dispensary and in the Episcopal Eye, Ear and Throat Hospital.

### LARYNGOLOGY AND OTOTOLOGY

VIRGINIUS DABNEY, M.D. *Professor*

WILLIAM H. JENKINS, M.D. *Clinical Associate*

The course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

### ROENTGENOGRAPHY

ARTHUR C. CHRISTIE, M.D. *Professor*

THOMAS A. GROOVER, M.D. *Associate Professor*

EDWIN A. MERRITT, M.D. *Associate*

The course consists of weekly lectures and demonstrations during the latter half of the year to the third-year class and of practical clinical demonstration of apparatus and the application of the X-ray to diagnosis during the entire fourth year. A fully equipped roentgen laboratory is maintained in the University Hospital and Dispensary



and clinical demonstrations are also given to the fourth-year students at the X-ray laboratory at Garfield Memorial Hospital.

### DIVISION OF GYNECOLOGY AND OBSTETRICS

HURON WILLIS LAWSON, M.D.	<i>Professor and Chief of the Division</i>
HOWARD FRANCIS KANE, M.D.	<i>Associate Professor of Obstetrics</i>
ELIJAH WHITE TITUS, M.D.	<i>Associate Professor of Gynecology</i>
ALBERT LIVINGSTON STAVELY, M.D.	<i>Clinical Professor of Gynecology</i>
GIDEON BROWN MILLER, M.D.	<i>Clinical Professor of Gynecology</i>
RICHARD LEE SILVESTER, M.D.	<i>Clinical Professor of Obstetrics</i>
THOMAS E. NEILL, M.D.	<i>Clinical Professor of Gynecology</i>
CYRUS WHITNEY CULVER, M.D.	<i>Associate in Obstetrics</i>
EDGAR SNOWDEN, M.D.	<i>Clinical Associate in Obstetrics</i>
GEORGE NORDLINGER, M.D.	<i>Instructor in Obstetrics</i>
JACOB KOTZ, M.D.	<i>Instructor in Gynecology</i>
VIRGIL B. JACKSON, M.D.	<i>Clinical Instructor in Gynecology</i>
ARCH LOCKHART RIDDICK, M.D.	<i>Clinical Instructor in Gynecology</i>
GLADYS KAIN, M.D.	<i>Clinical Instructor in Gynecology</i>
CHARLES DEMAS, M.D.	<i>Clinical Instructor in Obstetrics</i>
JOSEPH HARRIS, M.D.	<i>Clinical Instructor in Obstetrics</i>

SUBJECT	YEARS	HOURS	
		Totals Didactic and Clinical	Didactic not to exceed
Obstetrics	III and IV	238	128
Gynecology	III and IV	112	64

The course in obstetrics comprises lectures, recitations, laboratory demonstrations and clinical instruction and extends over the third and fourth years. The lectures serve to outline the subject-matter and the recitations insure careful preparation on the part of the student. Special laboratory studies dealing with anatomy, embryology and pathology in relation to obstetrics are conducted in the different laboratories concerned. Models, manikins and cadavers are utilized in teaching the mechanism of labor and obstetrical operations. Clinical instruction is given to the classes in small sections at different hospitals and in the out-patient obstetrical service. Beginning about the middle of the third year each student is given practical instruction in making antepartum examinations and observes the management of labor cases. During the fourth year he conducts, under supervision, six labor cases in the out-patient maternity service and submits written reports upon the cases attended.

The course in gynecology comprises lectures, recitations and clinical instruction in dispensaries during the third year. During the fourth year ward cases are studied and operative clinics are given in different hospitals by members of the staff.

### ETHICS

The subject of ethics as given in the order of instruction will comprise didactic lectures on general and personal ethics in the first year and on medical ethics in the fourth year. Instruction will be given concerning personal hygiene, care of laboratory equipment, general conduct and adaptability for the profession.

### CLINICS

BUCKNER MCGILL RANDOLPH, M.D. *Director*  
 JOHN A. REED, M.D. *Associate Director in Medicine*  
 JOHN H. LYONS, M.D. *Associate Director in Surgery*  
 CYRUS W. CULVER, M.D. *Associate Director in Obstetrics*

The faculty believes that clinical teaching should be as thoroughly systematized as is the teaching in the laboratories. To this end, all clinics are now under the supervision of a Director of Clinics. This secures the highest possible utilization of available clinical material for teaching purposes, a proper supervision of clinicians and students, brings the individual student into direct contact with patients and requires him to do under authoritative supervision the clinical and laboratory work necessary to diagnosis and treatment, to properly interpret the conditions occurring during the progress of cases, and to correctly write up records.

Clinical and clinico-pathological conferences are held in which the history of cases, the physical, the laboratory and the post-mortem pathology when available, are presented and correlated.

### CLINICAL FACILITIES

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

#### University Hospital and the University Dispensary

The Hospital and Dispensary are part of the educational equipment of the University. They are integral parts of the Medical School, are entirely controlled by the Faculty of Medicine, and are used primarily in instructing the students in clinical work. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually.

The staff is composed of members of the Faculty of Medicine.

#### Garfield Memorial Hospital

Clinical instruction in medicine, including contagious diseases, surgery, gynecology and obstetrics.

#### Providence Hospital

Clinical instruction in medicine and surgery.



**Emergency Hospital and Central Dispensary**

Clinical instruction in medicine, surgery, particularly in emergency surgery, fractures and dislocations, dermatology and orthopedics.

**Washington Asylum Hospital**

Clinical instruction in medicine, particularly in chronic conditions.

**Columbia Hospital for Women**

Clinical instruction in obstetrics and gynecology.

**St. Elizabeth's Hospital**

This hospital, with 4,000 beds, is maintained by the United States Government.

Clinical instruction in mental and nervous diseases, medicine, surgery, in post-mortem work and gross pathology.

The psychiatric clinic is one of the largest in the country.

**Children's Hospital**

Clinical instructions in pediatrics and general and orthopedic surgery.

**The Episcopal Eye, Ear, Nose, and Throat Hospital**

Clinical instruction in ophthalmology, otology, laryngology and rhinology.

**Casualty Hospital**

Instruction in emergency surgery and orthopedics.

**Tuberculosis Hospital**

Clinical instruction in tuberculosis, in all its phases, both medical and surgical.

**CLASSIFICATION AND ADVANCEMENT OF STUDENTS**

Students are divided into four classes, according to their proficiency and time spent, viz: first year, second year, third year and fourth year.

*Proficiency* in all subjects is marked on a scale of 100. The passing grade in each subject is 75.

*Examinations:* Students who fail to appear at a regular examination will not be examined until the next regular examination except by special permission of the Advisory Committee of the Faculty. For special examinations, a fee of ten dollars will be charged for each subject.

A student who has failed in any subject will not be advanced unless his case is especially meritorious and then only by the authority of the Advisory Committee of the Faculty. A student who has failed in a

subject may, in the discretion of the Advisory Committee, be required to make it up in the September examinations.

A student who fails of graduation may, if approved by the Advisory Committee, be reexamined for graduation in the September examinations.

A student allowed to take the September examinations, either for graduation or advancement, will be required to take examinations in such subjects as the Advisory Committee may direct. For these examinations a fee of five dollars will be charged for each subject.

A student allowed to repeat a year will be required to take such subjects and such examinations as may be directed by the Advisory Committee.

A student who fails of advancement after repeating any one of the first three years or fails of graduation after repeating the final year will not be permitted to maintain his connection with the school.

#### REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character, must have complied with the admission and other requirements set forth, must have attended at least 80 per cent of all required instruction during four sessions of thirty-two weeks each in four separate years; must have satisfactorily completed all courses, passed all examinations, and must be present at the time specified for the final examinations, and also at commencement unless authorized to receive the degree in absentia. Graduates of other accredited colleges who desire degrees must spend at least one year in residence at this school.

Candidates who in their work and examinations attain a general average of 90 or more will be presented to the Faculty for consideration with reference to being designated as having graduated with distinction. If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction."

#### PRIZES

The following prizes are awarded at Commencement to members of the graduating class:

The Ordroneaux Endowment Prize of one hundred dollars to the member of the graduating class who has the highest scholastic standing;

The Lewes D. and Myrtle H. Wilson Prize of fifty dollars for the best essay on some phase of Obstetrics.

#### HOSPITAL APPOINTMENTS

Interns are annually appointed in the University Hospital. Appointments to similar positions are open to graduates and under-



graduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear and Throat Hospital, Sibley Hospital, and Walter Reed U. S. Army General Hospital.

#### UNIVERSITY MEDICAL SOCIETY

The George Washington University Medical Society was established in 1905 by a group of alumni. Its purpose is to cultivate closer friendly relations between the alumni and members of the faculty by means of social gatherings; to advance medical science by the presentation of essays, case reports and specimens for instruction and discussion at its meetings, and to further the interest of the University in general. All alumni and members of the faculty are eligible for membership on election.

Meetings of the Society are held in the Medical School building on the third Saturday of each month from October to May.

Senior students are invited to attend the meetings of this Society, so allowing them the valuable opportunity of hearing the papers presented on medical subjects and becoming familiar with the conduct of medical societies.

#### THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The central building of this Association is situated within a short distance of the Medical School.

On application through the Dean, students non-resident of the District may become members, with full privileges, including gymnasium, shower baths, swimming pools, lockers, etc., at a special rate of ten dollars for the period of the school session.

Further information regarding the Association may be obtained by application to the Secretary, 1736 G Street N.W.

#### MEDICAL CORPS UNIT—RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY

A Medical Unit (R. O. T. C.) is established in this school by authority of the Secretary of War, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the students in the unit.

Membership in the unit is voluntary, is open to any physically fit male student who is a citizen of the United States, and such membership offers material advantages.

Any student who remains in the unit for the four years of his medical course receives in the last two years pay from the Government amounting to approximately \$200.00.

The instruction in the unit is divided into two courses of two years each and consists of one hour per week of instruction in medico-military science and tactics, additional to the regular hours of medical teaching.

The object of the course is to prepare men for a better appreciation of the obligations as well as the rights of citizenship and to give them basic training in medico-military subjects.

Students who satisfactorily complete the first two years may, up to the quota allowed by the War Department, and if they elect, enter the advanced course of two years during which they receive pay, are obligated to complete the course and to attend one summer camp of instruction for six weeks to which the student will receive travel pay of five cents per mile and return. All camp requirements are provided, including uniform only worn in camp, other necessary articles, medical attention if necessary, and pay at the rate of \$21 per month—giving an enjoyable outing with pay.

Students who successfully complete the course are upon graduation recommended for commission in the Medical Section, Officers' Reserve Corps, provided they desire appointment. Selected graduates are eligible for and given preference in appointment to internships in Army General Hospitals where, at the present time, they receive the pay and allowances of a first lieutenant of the Medical Corps.

While students are not in any way obligated to enter the unit, it is suggested that for the small obligation and time given, the instruction and pay received is well worthy of consideration.

#### MEDICAL SCHOOL FEES

Registration, payable on entrance.....	\$5.00
Registration, each subsequent year.....	2.00
Tuition, each year.....	304.00
Material, first, second and third year, each.....	10.00
Breakage deposit, unused part returnable.....	10.00
University fee.....	8.00
Graduation fee, including Alumni membership for one year.....	11.00

On account of the large number of applications for admission, places can be reserved only for those qualified applicants who remit with the matriculation fee the incidental fees and two months' tuition—a total of \$111.00.

In case of illness or other unforeseen inability to attend, the tuition and incidental fees paid will be returned up to one month before the opening of the session, or thereafter if the place reserved is filled by another applicant.

After the initial payment for two months to secure registration in the freshman class, tuition may be paid in monthly instalments in



advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond of \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Dean.

There is no charge for use of microscopes, but students will be required to pay for injury to microscopes, apparatus and other college property. All breakage and loss not directly traceable to an individual student is assessed pro rata and any unforfeited balance of the breakage deposit will be returned at the expiration of the course.

Students who are allowed to take the four-year course in five years will be required to pay full tuition for each of the five years.

Registration in the Medical School is for a period of one year at a time. Acceptance by the School of a student's fee does not in any way obligate the School to accept the student for any subsequent year, and the right is reserved to drop any student from the School whenever in the interest of the student or the School the Advisory Committee of the Faculty deems it advisable to do so.

As the number of qualified applicants for admission to the School each year exceeds its capacity, those who wish to insure admission are urged to secure from the schools and colleges attended, completely compiled, premedical credentials and forward them for evaluation as long a time as possible before the opening of the Medical School in September.

While no standard form for statement of premedical credentials is required, certificate submitted must give complete information as to number of didactic and laboratory hours taken in each subject, year in which each subject was pursued, and the grade received in each. A blank form for the above information will be furnished upon request.

Persons are allowed to register as auditors for the tuition fees without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

No change in the courses undertaken at the time of registration will be made unless approved by the Dean.

For withdrawal written request must be approved by the Dean and no permission to withdraw or transfer, and no certificate of work done, will be given a student unless all fees and dues chargeable up to the end of the month in which withdrawal is made have been paid.

*University Fee.*

To insure them certain privileges and benefits, all students in the University are charged a fee of four dollars per semester, by which they are entitled to the following:

1. Gymnasium privileges, including participation in intra-university athletic sports.
2. Admission to all home athletic contests.
3. Admission to University debates.
4. Admission at special rates to other University events.
5. Use of the University tennis courts.
6. The University Hatchet, the official student newspaper issued weekly.
7. Medical and Hospital benefit as follows:
  - (a) Three visits by the University physician, office or home, in any one illness, exclusive of a specialist or surgical operation.
  - (b) Room, board, medicine, and undergraduate nursing in the University Hospital for not more than two weeks during the school term; necessity to be determined by the University surgeon.
  - (c) This benefit does not include: Treatment for illness or disability incurred previous to University term or prior to payment of fee.

**BOARD AND ROOMS**

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$30 to \$50 a month.

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For catalogues, application blanks, and further information, address:  
THE DEAN,  
Medical School,  
The George Washington University,  
1335 H Street N.W., Washington, D. C.



## THE GEORGE WASHINGTON UNIVERSITY SCHOOL OF NURSING

### ADMINISTRATIVE AND TEACHING PERSONNEL

CLOYD HECK MARVIN, Ph.D., LL.D.	President of the University
WILLIAM CLINE BORDEN, M.D.	Dean, Department of Medicine, and Chairman, Executive Committee of the Hospital
JASON D. BYERS	Superintendent of the Hospital
OSCAR BENWOOD HUNTER, A.M., M.D.	Bacteriology and Pathology
LESLIE HOWSON FRENCH, M.D.	Medical Diseases and Physiology
WILLIAM T. DAVIS, M.D.	Ophthalmology
GLADYS KAIN, M.D.	Gynecology
HOWARD FRANCIS KANE, M.D.	Obstetrics
COURSEN B. CONKLIN, M.D.	Contagious Diseases
CUSTIS LEE HALL, M.D.	Orthopedics
CHARLES B. CAMPELL, M.D.	Dermatology
GEORGE B. ROTH, M.D.	Materia Medica
ALBERT PERKINGS TIBBETTS, M.D.	Ear, Nose and Throat
ALLEN S. WOLFE, D.D.S.	Oral Hygiene
STEWART MAXWELL GRAYSON, M.D.	Surgery
FRANCIS G. SPEIDEL, M.D.	Anaesthesia
LYLE M. MASON, M.D.	Veneral Diseases
WILLIAM BINFORD KING, M.D.	Anatomy
F. AUGUST REUTER, M.D.	Urology
KATE B. KARPELES, M.D.	Personal Hygiene
JOSEPH HYRAM ROE, Ph.D.	Chemistry
FREDERICK A. MOSS, Ph.D., M.D.	Psychology
JULIA C. STINSON,	
Major and Superintendent Army Nurse Corps	Ethics
BIRDIE BEALL THOMPSON, R.N., G.W.U.H., 1908,	
Superintendent of Nurses and Principal of the School of Nursing	
LUCY LAMON, R.N., G.W.U.H., 1911,	
Assistant Superintendent of Nurses	
ETHEL SCHOFF, R.N., M.G.H., 1921	Practical Instructor
PHYLA STEVENS, R.N., M.G.H., 1921	Theoretical Instructor
CAROLYN McK. CHAPMAN, R.N.	Instructor in Massage
MARY H. PHILBRICK	Instructor in Dietetics
FRANCES ELEANOR MORROW, R.N., G.W.U.H., 1926,	
Operating Room Supervisor	
MELISSA ERVILLA CHAMBERLAIN, R.N., G.W.U.H., 1926,	
Night Supervisor	
MARTHA BLACK, R.N., St. L., 1909	Ward Supervisor
JEWELL PARKIN, R.N., G.W.U.H., 1926	Ward Supervisor

## HOSPITAL

The George Washington University Hospital is a general hospital with 110-bed capacity, non-sectarian, for white patients only, located in the central part of the city, and connected with it is a Dispensary having a large out-patient service, so that the institution affords a thorough and practical experience in medical, surgical, gynecological, obstetrical and emergency nursing and the administrative work incident to a hospital.

The Hospital Staff are all members of the Faculty of Medicine of the University Medical School, and the nurses receive the benefit arising from instruction, and the nursing of cases, under these trained teachers.

## ADVANTAGES

Nurses in training in this institution have the unusual advantages incident to University association, are carried as students in the University and as such participate in the commencement exercises. The class-rooms and laboratory equipment of the University Medical School, which adjoins the Hospital, are used by the student nurses for class work.

The city of Washington is especially attractive as a place of residence during the educational period of a young woman's life. There are more schools for young women in this city than in any other of its size in the country.

The cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty and interests, which as it is the seat of the General Government, are broad and national, make it an ideal place in which to pursue an educational course.

## NURSES' HOME

The Nurses' Home, 1016 13th Street N.W., with a resident matron, is located a short distance from the Hospital, where comfortable accommodations are furnished. All baggage must be sent to the Nurses' Home.

## BOARD OF LADY MANAGERS

The Hospital and the School of Nursing is materially assisted by an efficient Board of Lady Managers whose personal interest and financial assistance does much to improve these institutions.

## ADMISSION

Blank forms for filing application for admission to the School of Nursing will be furnished by the Superintendent of Nurses upon request.

Applicants shall not be less than 18 nor more than 30 years of age. They shall send with their application for admission certificates from their physician, oculist and dentist concerning their general health



and physical condition, two letters testifying as to their character, and the names and addresses of two additional persons for reference if required.

Applicants must be graduates of a recognized high school.

Probationers when admitted to the School as pupil nurses must provide themselves with a complete uniform outfit, as prescribed by the Superintendent of Nurses. The cost of this outfit is approximately \$32, and is payable on entrance.

Probationers are required to bring with them two laundry bags, one pair rubbers, two pairs of black oxford shoes with military rubber heels, black hose, one kimona, one napkin ring marked with name, one watch with second hand (Ingersoll Midget or equivalent is recommended). All articles of clothing must be plainly marked with name in full with indelible ink. All student nurses having bobbed hair will furnish nets and wear them while in uniform.

Jewelry is not worn on duty, and if of any value had better be left at home. If brought to the Nurses' Home it will be at owner's risk.

When probationers are accepted as pupil nurses, an equipment of scissors, hypodermic syringe, thermometer, necessary text-books, bibs, and School cape will be supplied them and charged for at cost price. The School cape will not be taken from the School unless the nurse graduates.

#### THE CENTRAL SCHOOL OF NURSING

The League of Nursing Education of the District of Columbia has maintained as its chief interest the establishment of a Central School of Nursing. This school functions under a committee consisting of superintendents and instructors from the various schools of nursing in the District. There are thirteen schools of nursing in connection with the hospitals in the city of Washington. Of this number, seven send their preliminary students to the Central School for instruction.

The Central School is in affiliation with the George Washington University, and the majority of instructors are members of the University Medical School Faculty. The lecture and laboratory rooms are provided in the Medical Building adjacent to the University Hospital. The curriculum covers the subjects of the preliminary period and the courses are in compliance with the requirements of the standard curriculum.

The students in the George Washington University School of Nursing have the advantage of the Central School of Nursing without cost, and students who satisfactorily complete the subjects given and who otherwise meet the matriculation requirements of the University are given college unit credits for their work, as follows: Chemistry, 1 unit; bacteriology,  $1\frac{1}{2}$  units; histo-anatomy, 1 unit; pathology,  $1\frac{1}{2}$  units, making a total of 5 units of University credits for completion of the preliminary term.

## GENERAL PROVISIONS

Approved applicants will be received on probation for a period of four months, at the end of which time those who appear to be fitted for the nursing profession will be accepted as pupil nurses and will be allowed to continue the course in training, after they have signed an agreement to abide by all the rules of the Hospital and to remain for a period of three years from the time of admission to the School.

Probationers will receive ten dollars (\$10) per month and pupil nurses twelve dollars (\$12) per month during their course of training.

Upon the satisfactory completion of the course, pupil nurses will be paid a bonus of three dollars a month for each month of service.

In addition to the monthly payment, all students in the School of Nursing receive their board and laundry free of expense, and in case of illness, medical attention and care in hospital when necessary, except that no payment will be made for time lost by illness.

Absence from duty on account of illness in excess of three weeks during the course must be made up. When a student nurse is absent for any cause exceeding six weeks she will forfeit her position in the School but may enter the succeeding class, if approved by the Executive Committee.

Two hours are allowed week days for rest, study and recreation; also one-half day (after 1 p. m.) each week (except week in which entire day is given), one-half day on Sunday, and one entire day each month.

Student nurses will be allowed a vacation of three weeks for each year of training, including the probationary period.

Pupil nurses may be dropped at any time for inefficiency, misconduct, unsatisfactory record, or whenever in the interest of the student nurse or the School the Executive Committee of the Hospital deems it advisable to do so.

A diploma from the University will be awarded to those who satisfactorily complete the full term of three years and successfully pass their examinations.

## STUDENT ADVISORY COUNCIL OF THE SCHOOL OF NURSING

An advisory council consisting of three pupil nurses is established in the School.

The purpose of this council is to develop a closer cooperation between the nurses' student body, the faculty of the School and the administrative authorities of the Hospital; to aid in the enforcement of discipline and to secure strict conformity to the rules of the School; to devise ways and means for social activities; to encourage higher ideals, desire and effort for the intelligent development and general uplift of the School and the profession of nursing.



This council has full latitude in considering matters that may appear to be of importance to the School of Nursing and to the profession.

#### COURSE OF INSTRUCTION

Classes in the School begin twice yearly (January and September).

The course of training (including the probationary period) covers three years and comprises theoretical and practical instruction.

Theoretical instruction is given by the members of the Faculty of Medicine of the University Medical School, and by the Principal of the School of Nursing and a graduate nurse Instructor. Practical instruction is given by demonstrations in class-room and follow-up in the wards, conducted by the Instructor of the School of Nursing. By affiliation, pupils are given instruction in eye, ear, nose and throat work and children's diseases.

#### ORDER OF THEORETICAL AND PRACTICAL INSTRUCTION FOR STUDENT NURSES

##### *Preliminary Work*

Elementary Nursing—	Hours
Principles and Methods.....	125
Anatomy and Physiology.....	60
Bacteriology .....	45
Personal Hygiene .....	10
Applied Chemistry .....	45
Nutrition and Cookery.....	40
Bandaging .....	10
Drugs and Solutions.....	20
History of Nursing.....	15
Elementary Psychology .....	15
Ethics .....	8
Histology .....	20

##### *Second or Spring Term*

Pathology .....	18
Nursing in Medical Diseases.....	30
Nursing in Surgical Diseases.....	15
Materia Medica .....	20
Diet in Disease.....	10

##### *Junior or Second Year*

Nursing in Communicable Diseases.....	20
Pediatrics .....	20
Massage .....	10

	<i>Hours</i>
Gynecological Nursing .....	10
Orthopedic Nursing .....	10
Obstetrical Nursing .....	20
Nursing in Eye, Ear, Nose and Throat.....	10
Urology .....	6

*Senior or Third Year*

Nursing in Mental and Nervous Diseases.....	20
Nursing in Occupational, Venereal and Skin Diseases.....	10
Public Sanitation .....	10
Emergency Nursing and First Aid.....	10
Special Lectures .....	20

Dietetics includes six weeks in special cookery for the sick under the direction of a trained dietitian.

## GRADUATES

*Class of 1927*

MARY VIRGINIA FLIPPO .....	<i>Virginia</i>
MARY ADELA CURTIS .....	<i>North Carolina</i>
CLAUDINE CAROLYN CLARK .....	<i>Pennsylvania</i>
AGNES VERNA HERRINGTON .....	<i>Pennsylvania</i>
ERVA LOIS McCONCHIE .....	<i>Virginia</i>
RAE BROWN .....	<i>District of Columbia</i>
LETA MAY LANGLEY.....	<i>North Carolina</i>



## LAW SCHOOL

### CALENDAR, ACADEMIC YEAR 1927-1928

1927		
September 1		<i>Thursday</i> —Registration begins for the session 1927-28.
September 21		<i>Wednesday</i> —Academic year begins in all departments of the University.
October 11		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
November 8		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
November 24-26		<i>Thursday to Saturday, both inclusive</i> —Thanksgiving Recess, a holiday in all departments of the University.
December 13		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
December 23, 1927, to		
January 2, 1928		<i>Friday to Monday, both inclusive</i> —Christmas Recess.
1928		
January 10		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
January 23-28		<i>Monday to Saturday</i> —Mid-year examinations.
January 30		<i>Monday</i> —Second semester begins.
February 14		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
February 22		<i>Wednesday</i> —Winter Convocation. A holiday in all departments of the University.
March 13		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
April 3		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
April 6-14		<i>Friday to Saturday, both inclusive</i> —Easter Recess.
May 8		<i>Tuesday</i> —Stated monthly meeting of the Law Faculty.
May 21		<i>Monday</i> —Final examinations begin.
May 30		<i>Wednesday</i> —Decoration Day. A holiday in all departments of the University.
June 1		<i>Friday</i> —Registration for summer sessions begins.
June 13		<i>Wednesday</i> —Commencement, and Annual Meeting of the Board of Trustees.
June 18		<i>Monday</i> —First summer session begins.
August 1		<i>Wednesday</i> —First summer session ends.
August 2		<i>Thursday</i> —Second summer session begins.
September 15		<i>Saturday</i> —Second summer session ends.

## LAW SCHOOL

### FACULTY

WILLIAM MATHER LEWIS, A.M., LL.D.	<i>President of the University</i>
WILLIAM CABELL VAN VLECK, A.B., LL.B., S.J.D.,	<i>Dean and Professor of Law</i>
WALTER COLLINS CLEPHANE, LL.M.	<i>Professor of Law</i>
EDWIN CHARLES BRANDENBURG, LL.M.	<i>Professor of Law</i>
JOHN PAUL EARNEST, A.M., LL.M.	<i>Professor of Law</i>
WENDELL PHILLIPS STAFFORD, A.M., LL.D., Litt.D.	<i>Professor of Law</i>
JOHN WILMER LATIMER, LL.B.	<i>Professor of Law</i>
CHARLES SAGER COLLIER, A.B., LL.B.	<i>Professor of Law</i>
HECTOR GALLOWAY SPAULDING, A.B., LL.B., S.J.D.	<i>Professor of Law</i>
HENRY WHITE EDGERTON, A.B., LL.B.	<i>Professor of Law</i>
ALVIN ELEAZAR EVANS, Ph.D., J.D.	<i>Professor of Law</i>
EARL CASPAR ARNOLD, A.B., LL.B.	<i>Professor of Law</i>
WALTER LEWIS MOLL, A.B., LL.B., S.J.D.	<i>Professor of Law</i>
LOYD HALL SUTTON, S.B., LL.B.	<i>Associate Professor of Law</i>
WILLIAM THOMAS FRYER, A.B., LL.B., J.D.	<i>Assistant Professor of Law</i>
LEVI RUSSELL ALDEN, A.M., LL.B.	<i>Lecturer in Law</i>
GILBERT LEWIS HALL, A.B., LL.B.	<i>Lecturer in Law</i>
EDWARD AVERY HARRIMAN, A.B., LL.B.	<i>Lecturer in Law</i>
CLARENCE A. MILLER, LL.M.	<i>Lecturer in Law</i>
WILLIAM WARFIELD ROSS, LL.B.	<i>Lecturer in Law</i>
JOHN WILLIAM TOWNSEND, LL.M.	<i>Lecturer in Law</i>
FRED C. O'CONNELL, LL.M.	<i>Clerk of the Moot Court</i>
HELEN NEWMAN, LL.B.	<i>Secretary</i>

### MOOT COURT OF APPEALS

STANTON JUDKINS PEELE, LL.B.	<i>Chief Justice</i>
BRAINARD WARNER PARKER, LL.B.	<i>Associate Justice</i>
JOSEPH WINSTON COX, LL.B.	<i>Associate Justice</i>

### LIBRARY

RAY VAN COTT, JR.	<i>Assistant Librarian</i>
ROBERT HENRY GEISLER	<i>Assistant Librarian</i>



## GENERAL STATEMENT

*History.*—The Law School, established in 1865, is the oldest in the District of Columbia. Its course of instruction for the degree of Bachelor of Laws, originally requiring two years, was increased in 1898 to three years. A year of graduate work was added in 1877 leading to the degree of Master of Laws. The curriculum was later increased by a course of study leading to the degree of Master of Patent Law. In 1911 the School became co-educational. In 1923, in compliance with the requirements of the American Bar Association and of the Association of American Law Schools, the late afternoon course for employed students was increased to four years. On September 1, 1925, the entrance requirement was increased to two years of college work.

*Member of the Association of American Law Schools.*—The Law School is a member of the Association of American Law Schools, an association of sixty-two law schools, including the leading schools of the country, such as Harvard, Yale, Columbia, Pennsylvania, Michigan and Chicago. Members must maintain prescribed standards of entrance requirements, faculty, library, and course of study. Usually member schools give a maximum of credit to one another's work. This becomes important if students find it necessary to leave Washington and finish their course elsewhere.

*Class A, American Bar Association.*—The American Bar Association has, through its Council on Legal Education, undertaken the classification of law schools. It has given the George Washington University Law School the highest classification, Class A. To be given this classification, a school must comply with certain standards as to its entrance requirements, faculty, library and curriculum.

*Scope of the Course.*—The Law School is not a local school. Among last year's student body were representatives of 45 states and the District of Columbia. The school gives a general course planned to prepare its graduates for the practice of law in any English-speaking country.

*Case Method of Instruction.*—For twenty years the Law School has used the case method of instruction. The students' principal work consists of the reading, study, and analysis of the reports of decided cases. These cases are stated in class and are then discussed under the guidance of the instructor who questions the students, explains the various phases of the decision and often the arguments pro and con, and answers questions asked and arguments advanced by members of the class. Other analogous or related cases are considered.

This inductive case system is the antithesis of the lecture and illustrative case method which is often mistaken for it. It is now

used in nearly all of the schools in the Association of American Law Schools, and in a large majority of other law schools.

This method provides training in legal analysis and legal reasoning and at the same time gives a thorough grasp of fundamental legal principles. The student becomes familiar with principles of law, not as abstract generalizations or definitions, but in concrete applications to actual cases. He deals with actual legal problems and their solution by the ablest judges of England and America. He thus begins under the instructor's guidance work of a kind which he must do when he enters practice. Constant wrestling with concrete questions under the Socratic method of instruction results in mental acuteness and accuracy. The student acquires a "legal mind"—the power to analyze legal problems and to apply to the results of his analysis the correct legal principles.

*The Faculty.*—The major part of the course is made up of subjects dealing with the fundamental theories of substantive law as distinct from practice. Most of these subjects are taught by professors who devote their entire time to the work of the Law School. They have offices in the law building and students have abundant opportunity to consult with them. The practice courses are taught by professors who are at the same time engaged in active practice. This combination of full-time and part-time faculty has several advantages. It gives the school the advantage of the full energy and uninterrupted working time of legal scholars trained for teaching and research, and gives the students opportunity for personal contact and conference. At the same time the school is brought into contact with the bar and with the actual administration of justice.

*The Student Body.*—Maturity, earnestness of purpose, and good preliminary training characterize the student body. Of the entire registration of candidates for the Bachelor of Laws degree this year, 1926-27, forty-eight per cent are college graduates. All applicants for regular standing are required to have completed at least two years of college work. The average age of the student body of 1926-27 is 27 years. Many of these mature, well-trained men and women are paying their own way. They make the most of their time in the class-room and out. The presence of such students gives to the classes a morale which is equalled in few law schools.

*The University.*—The Law School is a department of the George Washington University, founded in 1821. The University has an annual registration of nearly six thousand students. It includes the Department of Arts and Sciences, in which training in liberal arts, sciences, teaching, and engineering, is given, the Medical School and the College of Pharmacy.

*Entrance Requirements.*—For admission to regular standing the Law School requires two years of college work. This is the require-



ment of the American Bar Association, the National Conference of Bar Associations, and the Association of American Law Schools.

At a meeting held in 1922, the National Conference of Bar Associations, consisting of delegates from state and local bar associations from all parts of the country, in approving two years of college work as a minimum of preliminary education for the study of law and for admission to the bar, passed the following resolution:

"The great complexity of modern legal regulations requires for the proper performance of legal services, lawyers of broad general education and thorough legal training. The legal education which was fairly adequate under simpler economic conditions is inadequate today. It is the duty of the legal profession to strive to create and maintain standards of legal education and rules of admission to the Bar which will protect the public both from incompetent legal advisers and from those who would disregard the obligations of professional service."

The training in a modern law school of the best type is so severe and the legal problems so difficult that few students can do justice to the work without this minimum of preliminary general education. The demands upon the lawyers of today are so great and the competition is so keen that adequate general education before the study of law is as essential as technical professional training.

*Classes for Full-Time Students.*—A complete course in the forenoon is given for full-time students. The Association of American Law Schools and the American Bar Association have fixed as the standard law course three years substantially entirely devoted to the study of law. While the school furnishes classes for employed students, and subject to proper standards and restrictions is committed to the policy of continuing such classes, it realizes the value of the student's devoting at least three years entirely to the study of law. Not only are such students freed from the distractions and fatigue of employment, but they also can take advantage to the utmost of the fact that they are living in the capital city. Full-time students are permitted to take the maximum number of hours per week and to complete the course in a minimum period of three academic years. The number of full-time students is steadily increasing.

*Classes for Employed Students.*—Washington affords unique advantages for self-supporting students. To accommodate such students the Law School provides a complete curriculum in the late afternoon from 5:10 to 6:55, with some optional morning classes from 7:45 to 8:35. Many of these students have positions in the Government service, or in private offices. The hours of government employment are, as a rule, from 9 to 4:30. The same hours are followed in many private offices. The location of the school makes it possible for

students to come direct to their classes from their employment. Thus the time between the close of the office day and the evening meal is utilized, a substantial economy. Moreover the student's evenings are free for uninterrupted study. Students employed in law offices or in legal bureaus of the government departments find their employment valuable in giving them practical experience to supplement the work of the classroom.

Justice to these employed students requires that they be given legal training of the most improved type and that they be held to the standards of scholarship necessary to fit them adequately for the practice of law. The fact that they are self-supporting does not justify their being given less. Accordingly, such students are restricted to not more than ten hours per week of class work and are required to spend four academic years in residence instead of the three years required of students devoting their entire time to the study of law. This requirement also is in accordance with the rules of the American Bar Association and the Association of American Law Schools.

*Requirements for Admission to the Bar.*—In 1921 the American Bar Association, which numbers over twenty-five thousand leading lawyers of this country approved a new requirement for admission to the bar, and recommended its adoption by the several states. In 1922 a conference of delegates from local and state Bar Associations from all over the country approved the action of the American Bar Association and also recommended to the states the adoption of the new requirement. This new requirement is that every candidate for admission to the bar shall give evidence of graduation from a law school complying with the following standards:

An entrance requirement of two years of college work.

Three years of study for full time students and a longer time, later defined as four years, for part time or employed students.

An adequate library and a sufficient number of teachers giving their entire time to the work of the school, to insure actual personal acquaintance, later defined as one full time teacher for each one hundred students or major fraction thereof.

This requirement had already received the approval of the Association of American Law Schools, consisting of sixty-two law schools.

Since the action of these associations a campaign has been carried on to secure the adoption of the requirement in the various states and substantial progress has been made. Seven of the states (Kansas, Illinois, Montana, Ohio, West Virginia, Colorado and Wisconsin) have adopted the new requirement in whole or in part. A number of other states have improved their standards for admission to the bar as a preliminary step toward further improvements. Students are cau-



tioned to ascertain before beginning the study of law the requirements of the jurisdictions in which they plan to practice.

The George Washington University Law School complies with the requirements approved by the American Bar Association, the National Conference of Local and State Bar Associations, and the Association of American Law Schools. Students who graduate successfully from it ought to be able to satisfy the requirements for admission to the bar in any state in the Union.

#### ADVANTAGES OF WASHINGTON FOR LAW STUDENTS

Washington has unique advantages for the student of law. The United States Supreme Court, Court of Claims, and Court of Customs Appeals, and the Court of Appeals, Supreme Court, and Municipal Court of the District of Columbia, represent every phase of the judicial department of the government. In the sessions of Congress may be seen the workings of the national legislative machinery. The federal executive departments furnish examples of every kind of administrative activity. The Federal Trade Commission, Interstate Commerce Commission, Internal Revenue Bureau, and Patent Office, are of special interest to prospective lawyers.

The library facilities are unexcelled. The Library of Congress has over three million books and pamphlets including a law library of over one hundred and fifty thousand volumes. The reading room of this library is open to students.

Stockton Hall, the new law school building, is in the heart of the city. Within a few minutes' walk are the White House, Treasury Department, the Department of the Interior, Department of Commerce, Department of Labor, Civil Service Commission, and the Court of Claims. A little longer walk to the east are the Washington Public Library, the United States Patent Office, and the buildings of the District of Columbia Supreme Court and Court of Appeals. The Capitol and Library of Congress can be reached by a short ride on either of two car lines. Two of Washington's beautiful parks, the Mall, and Potomac Park, the latter with public golf courses, tennis courts, and baseball and football fields, are within a few minutes' walk of Stockton Hall.

In cultural advantages Washington is unexcelled. No other city furnishes to the student so many opportunities outside the classroom for acquisition of knowledge, broadening of vision, and gain in culture.

#### THE LAW BUILDING

Since September 1, 1925, the Law School has occupied a new building specially designed and constructed for its use. It has been named Stockton Hall in honor of the late Rear Admiral Charles H. Stockton, president of the University from 1910 to 1918.

This new building is on Twentieth Street between G and H Streets and within easy walking distance of most of the Government offices and places of interest with which Washington is crowded. It contains ten classrooms with a total maximum capacity of nearly 1,300 students, a library with accommodation for over 40,000 volumes, ten offices for professors, and rest rooms for men and women students.

#### LIBRARY

The Law School library, comprising 12,000 volumes, is open daily from 9 a. m. to 11 p. m. and from 2 to 6 p. m. on Sundays. It contains the decisions of the highest courts of all the States and the District of Columbia, the reports of the United States Supreme Court and other federal courts, the English Reprints, English Law Reports, the United States Statutes, the Statutes of certain States, the English Statutes, the principal English and American digests, legal encyclopedias and collections of annotated cases, and the leading text books and legal periodicals.

Students have access to the Congressional Library, including a law library of one hundred and fifty thousand volumes, and other public libraries.

#### ACADEMIC YEAR AND REGISTRATION

The academic year 1927-28 begins Wednesday, September 21, and closes Wednesday, June 13. The year is divided into two semesters, the second beginning January 30. The course is so arranged that a student may enter at the beginning of the second semester and be graduated three years from that time, receiving his degree at the Winter Convocation held on or about February 22 of each year.

Students are advised to register before the beginning of a semester. No student will be permitted to register for a semester subject after the first two weeks of the semester. No student will be permitted to register for a year after the first four weeks of the year.

#### ADMISSION

Men and women are admitted to the Law School on the same terms.

1. *For the Degree of Bachelor of Laws.*—Candidates for this degree must have completed prior to registration a four-year high school course and two years of college work, that is, sixty semester hours. The entrance requirements for this degree must be met by the presentation of certificates from approved colleges showing the successful completion of the necessary credits, both high school and college. These certificates should be mailed directly to the Secretary of the Law School from the colleges where the work was completed. The entrance requirements may also be satisfied by the presentation of a diploma showing graduation from an approved college.



Whenever it is possible, certificates should be in the hands of the Secretary of the Law School before September 15 so that the applicant may be advised as to his eligibility.

No student will be permitted to register as a regular or unclassified student until his certificates have been filed and evaluated. A student who is unavoidably delayed in the filing of his certificates may be admitted to a tentative registration. Students thus admitted who do not have their credentials submitted and approved within twenty days will be dropped from this tentative registration. In such cases there will be no refund of registration fee, university fee or tuition fees.

The college work required for admission may be completed in the Department of Arts and Sciences of George Washington University. Classes in pre-legal subjects are given in this department in the forenoon and early afternoon for full-time students, and also in the late afternoon at hours convenient for employed students. Pre-legal work may also be taken in the summer session of this department. Applicants should communicate with the Registrar of the Department of Arts and Sciences, 2033 G Street Northwest, or with the Secretary of the Law School.

The following pre-legal course is suggested:

	<i>Semester Hours</i>
<b>Freshman Year</b>	
English 1 or 2 .....	6
Mathematics or Natural Science .....	6
History .....	6
Political Science 1 and 3 or 2 and 4 .....	6
Modern Language .....	6
	—
	30
<b>Sophomore Year</b>	
English History .....	6
Economics 1 or 2 .....	6
Logic and Ethics .....	6
Modern Language .....	6
Elective .....	6
	—
	30

II. *For the Degree of Master of Laws or Master of Patent Law.*—Candidates for these degrees must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools.

III. *As Special Students.*—Persons who cannot qualify as candidates for a degree but are over twenty-five years of age and because of their maturity, educational training and practical experience make exceptional cases and show apparent ability to pursue satisfactorily the study of law, may be admitted as special students by action of the Scholarship Committee.

Candidates for registration as special students must file a written application to the dean setting forth their qualifications in detail. Work done by special students may not be counted toward the degree.

The number of such special students admitted each year may not exceed 10 per cent of the average number of students entering the school for the first time during the two years preceding.

IV. *As Unclassified Students.*—Persons who are eligible to be admitted to regular standing but who do not wish to register for a degree may, in the discretion of the Dean, be permitted to register as unclassified students. No person who carries more than five hours per week shall be registered as an unclassified student. Applicants for registration as unclassified students must file certificates as required of candidates for degrees.

V. *With Advanced Standing.*—Students from other law schools which substantially comply with the requirements of the Association of American Law Schools or have been approved as Class A by the Council on Legal Education of the American Bar Association may receive not exceeding two years' credit toward the degree of Bachelor of Laws for work done in such schools. Such students must have been qualified to enter this school when they began the study of law. Applicants for admission with advanced standing must file certified transcripts of record showing high school, college and law credits. The right is reserved to refuse such credit, in whole or part, or to allow it conditionally or after examination, and credit given may be withdrawn for subsequent poor work.

No credit will be given for law studies pursued in a college or high school before entering on the regular study of law, or for law studies pursued in a law office or through a correspondence course.

#### HOURS OF INSTRUCTION

The hours of instruction are 7:45-8:35 a. m., 9 a. m.-12 and 5:10-6:55 p. m. A complete course for the LL.B. degree is given in the classes from 9 a. m. to 12. These classes are primarily for students devoting substantially their entire working time to the study of law. Students in these forenoon classes may complete the course for the LL.B. degree in three years. Employed students may complete the full course for the degree by attending the late afternoon classes from 5:10 to 6:55 p. m., or by attending partly from 7:45-8:35 a. m. and



partly from 5:10-6:55 p. m. The period of attendance for such students is four years. Subjects offered from 7:45-8:35 a. m. are elective courses open to second and third year students.

A student who takes a majority of his courses in the forenoon section may take work not exceeding fifteen hours a week. A student who takes a majority of his courses in the afternoon section, or in classes held before 9 a. m., is not permitted to register for more than ten hours of work.

#### DEGREES

1. *Bachelor of Laws.*—The requirements for the degree of Bachelor of Laws are attendance for three academic years in the case of full-time students and for four academic years in the case of part-time students, and the passing of examinations with an average grade of at least "C" in required and elective subjects aggregating eighty semester hours. A semester hour is an hour a week of class work for one semester. Not more than sixteen semester hours with a grade of "D," conditional pass, may be counted toward this degree. This sixteen-hour rule, however, does not apply to students who entered the Law School before January 1, 1925.

The degree of Bachelor of Laws with distinction will be awarded students who attain an average grade of "A" in all subjects counted toward that degree.

2. *Master of Laws.*—The requirement for the degree of Master of Laws is the completion of at least twenty semester hours in subjects not counted toward the degree of Bachelor of Laws, with a grade of at least "C" in each subject, and an average grade of at least "B." This degree will not be conferred until one academic year after the receipt of the Bachelor's degree.

Trusts, Conflict of Laws and Constitutional Law must be included in the course for the degree of Master of Laws if not taken in the course for the degree of Bachelor of Laws. In the case of students registering for this degree after June 1, 1925, Roman Law will also be required.

3. *Master of Patent Law.*—Students who have qualified for the degree of Master of Laws may elect instead the degree of Master of Patent Law, provided they have included in their course the Patent Law subjects and Federal Procedure. This degree will not be conferred until one academic year after receipt of the degree of Bachelor of Laws.

Candidates for degrees who have been absent from school for two successive years may reenter and continue the course only on such terms as the faculty may prescribe at the time of reentering.

The right is reserved to refuse to confer a degree upon a candidate whose attendance or conduct have been unsatisfactory to the faculty.

### COMBINED SIX-YEAR COURSE FOR THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF LAWS

The University permits one year of professional work in the Law School to be counted toward an academic degree. The degree of Bachelor of Arts will be conferred upon the completion of three years of college work (ninety semester hours, eighteen semester hours of which must be completed in the Department of Arts and Sciences of George Washington University, including one of the six groups of subjects there prescribed), and twenty-eight semester hours in the Law School; the degree of Bachelor of Laws upon the completion of the remainder of the work for that degree.

### ATTENDANCE, EXAMINATIONS, GRADES, AND REQUIRE- MENTS FOR REMAINING IN THE SCHOOL

*Attendance.*—No student, except by special permission of the Dean, will be allowed credit in any subject unless he has been regularly registered and in regular attendance and has done all the work required in the course in that subject.

*Examinations.*—Written examinations are held at the close of the first semester in subjects which are then completed and at the close of the second semester in all other subjects. All students are required to take the regular examinations in the subjects pursued, unless excused by the Dean. A student who, with the consent of the Dean, does not take the final examination in a subject with the class in which he is enrolled, may take the next regular examination given in the subject.

A student who receives a conditional or passing grade in any subject will not be permitted to take any subsequent examination in that subject without repeating the subject. A student who receives a grade of E in a single subject only, if he has a general average of C for the year, may take the next regular examination in that subject and if, on such reexamination, he attains the grade of C, will be credited with a grade of D (60) in the subject.

No special examinations will be given; provided, that upon written application to the Scholarship Committee, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take that examination, may, in the discretion of the committee, be given a special examination not less than sixty days after the one which he failed to take or to pass.

*Grades.*—At all examinations the grades of students are indicated as follows: A—excellent, 85-100; B—good, 75-84; C—pass, 65-74; D—conditional pass, 55-64; E—failure, below 55.



At the end of each academic year each student receives a percentage grade showing his general average for the year.

Not more than sixteen semester hours with a grade of D may be counted toward the degree of Bachelor of Laws. This rule will not apply to students who entered the school prior to January 1, 1925.

An average of C in eighty hours of work will be required of all candidates for the degree of Bachelor of Laws.

*Requirements for Remaining in the School.*—Unless a student in each academic year receives a grade above E in at least three-fourths of the semester hours in which he is registered (unless he is excused by the Dean from taking an examination), he will be denied registration in the future; provided that upon written application to the Scholarship Committee, showing sufficient cause, a student may be reinstated on such conditions as the committee may impose.

The Scholarship Committee has the power to warn, place on probation, or to drop students whose work or attendance is deemed unsatisfactory or to refuse registration to such students.

#### RESERVATION OF RIGHT TO CHANGE RULES

The right is reserved to drop any student from the Law School whenever, in the interest of the student or the school, the faculty deem it advisable to do so, or to modify or change the requirements, rules and fees of the school.

#### SUBJECTS OF INSTRUCTION

The subjects marked with an asterisk are prescribed for the degree of Bachelor of Laws. These are as follows: Bills and Notes, Common Law Actions, Common Law Pleading and Practice, Constitutional Law, Contracts, Corporations, Criminal Law and Procedure, Equity II, Equity Pleading and Practice, Evidence, Legal Ethics, Moot Court, Personal Property, Real Property I, Real Property II, and Torts. Criminal Law and Procedure is not required of students who entered the school before June 1, 1925. Constitutional Law is not required of students who entered before June 1, 1924.

*Legal Ethics.*—Beginning with the academic year 1927-28, all candidates for the Bachelor of Laws degree will be required to attend in their senior year the lectures on legal ethics held at the second, third and fourth sessions of the Moot Court.

The student may elect the remainder of his subjects. Third-year students may elect subjects of the second year not previously studied.

The following is a list of subjects offered during 1926-27, and is not an announcement of courses for 1927-28, although few changes are anticipated. Text books and instructors may be changed in some instances.

## FIRST-YEAR SUBJECTS

AGENCY. *Two hours a week throughout the year.* Keedy's Cases on Agency. Mr. FRYER.

\*COMMON LAW ACTIONS. *One hour a week for one semester.* Sunderland's Cases on Common Law Pleading. Mr. FRYER.

\*CONTRACTS. *Three hours a week first semester, four hours a week the second semester.* Williston's Cases on Contracts. Mr. MOLL, Mr. SPAULDING, and Mr. TOWNSEND.

\*CRIMINAL LAW AND PROCEDURE. *Three hours a week for one semester.* Mikell's Cases on Criminal Law and Procedure. Mr. EARNEST.

DOMESTIC RELATIONS. *Two hours a week for one semester.* Woodruff's Cases on Domestic Relations. Mr. EVANS.

\*PERSONAL PROPERTY. *Three hours a week for one semester.* Warren's Cases on Property. Mr. ARNOLD and Mr. EVANS.

PRINCIPLES OF LEGAL LIABILITY. *Two hours a week for one semester.* Beale's Cases on Legal Liability. Mr. VAN VLECK.

\*TORTS. *Three hours a week throughout the year.* Pound's Cases on Torts. Mr. COLLIER and Mr. EDGERTON.

## SECOND-YEAR SUBJECTS

AGENCY. *Two hours a week throughout the year.* Keedy's Cases on Agency. Mr. FRYER.

\*COMMON LAW PLEADING AND PRACTICE. *Two hours a week for one semester.* Shipman on Pleading. Mr. CLEPHANE and Mr. ROSS.

DOMESTIC RELATIONS. *Two hours a week for one semester.* Woodruff's Cases on Domestic Relations. Mr. EVANS.

\*EQUITY II. *Two hours a week throughout the year.* Ames' Cases on Equity Jurisdiction, Volume 1. Mr. SPAULDING.

\*EQUITY PLEADING AND PRACTICE. *One hour a week for one semester.* Jones on Equity Pleading and Practice. Mr. CLEPHANE and Mr. ROSS.

\*EVIDENCY. *Two hours a week throughout the year.* Hinton's Cases on Evidence. Mr. LATIMER and Mr. FRYER.

INSURANCE. *Two hours a week for one semester.* Vance's Cases on Insurance. Summer Session 1927.

LEGAL BIBLIOGRAPHY AND BRIEF-MAKING. *One hour a week for one semester.* Mr. HALL and Mr. MILLER.

QUASI-CONTRACTS. *Two hours a week for one semester.* Thurston's Cases on Quasi-Contracts. Summer Session 1927.

REAL PROPERTY I. *Two hours a week throughout the year.* Warren's Cases on Property. Mr. ARNOLD.

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\*Subjects required for the LL.B. degree.



\*REAL PROPERTY II. *Two hours a week throughout the year.* Not given in 1926-27. Given in summer session of 1927.

SALES. *Two hours a week throughout the year.* Williston's Cases on Sales (3rd ed.). Mr. MOLL.

## THIRD-YEAR SUBJECTS

ADMINISTRATION OF ESTATES. *Two hours a week for one semester.* Warren's Cases on Wills and Administration. Mr. EVANS.

ADMINISTRATIVE LAW. *Two hours a week for one semester.* Freund's Cases on Administrative Law. Mr. SPAULDING.

ADMIRALTY. *Two hours a week for one semester.* Ames' Cases on Admiralty Jurisdiction, and assigned readings. Mr. ALDEN.

BANKRUPTCY. *Two hours a week for one semester.* Mr. BRANDENBURG.

\*BILLS AND NOTES. *Two hours a week throughout the year.* Britton's Cases on Bills and Notes. Mr. ARNOLD.

CONFLICT OF LAWS. *Two hours a week throughout the year.* Lorenzen's Cases on Conflict of Laws. Mr. VAN VLECK.

\*CONSTITUTIONAL LAW. *Two hours a week throughout the year.* Hall's Cases on Constitutional Law. Mr. COLLIER.

\*CORPORATIONS. *Two hours a week throughout the year.* Warren's Cases on Corporations (2nd ed.). Mr. EDGERTON.

EQUITY III. *Two hours a week for one semester.* Ames' Cases on Equity Jurisdiction, Volume II. Justice STAFFORD and Mr. SPAULDING.

EXTRAORDINARY REMEDIES AND LEGAL TACTICS. *One hour a week for one semester.* Mr. CLEPHANE.

FEDERAL PROCEDURE. *Two hours a week for one semester.* Mr. BRANDENBURG.

INTERNATIONAL LAW. *Two hours a week throughout the year.* Scott's Cases on International Law. Mr. HARRIMAN.

\*LEGAL ETHICS. *Six hours of lectures at the second, third and fourth sessions of the Moot Court.* Mr. CLEPHANE and Mr. EARNEST.

\*MOOT COURT. *Two hours a week throughout the year.* Messrs. CLEPHANE, EARNEST, LATIMER and HALL. To register for this course, students must have completed Common Law Pleading and Practice, Equity Pleading and Practice and Evidence.

MORTGAGES. *Two hours a week for one semester.* Campbell's Cases on Mortgages. Mr. FRYER.

ORGANIZATION AND MANAGEMENT OF CORPORATIONS. *One hour a week for one semester.* Clephane on the Organization and Management of Corporations. Mr. CLEPHANE.

PARTNERSHIP. *Two hours a week for one semester.* Crane and Magruder's Cases on Partnership. Justice STAFFORD.

\*Subjects required for the LL.B. degree.

PATENT LAW (Substantive) AND PATENT OFFICE PRACTICE. *Two hours a week throughout the year.* Mr. SUTTON.

PATENT LAW MOOT COURT. *Two hours a week for one semester.* Mr. SUTTON.

PROPERTY III. *Two hours a week for one semester.* Kale's Cases on Future Interests. Not given in 1926-27.

PUBLIC UTILITIES. *Two hours a week throughout the year.* Burdick's Cases on Public Utilities. Mr. EDGERTON.

ROMAN LAW. *Two hours a week for one semester.* Sohm's Institutes of Roman Law (Ledlie's translation); Pound's Readings in Roman Law. Mr. MOLL.

SURETYSHIP. *Two hours a week for one semester.* Ames' Cases on Suretyship. Mr. ARNOLD. Summer Session of 1927.

TAXATION. *Two hours a week for one semester.* Beale's Cases on Taxation. Mr. COLLIER.

TRUSTS. *Two hours a week throughout the year.* Scott's Cases on Trusts. Mr. EVANS.

WILLS. *Two hours a week for one semester.* Warren's Cases on Wills and Administration. Mr. EVANS.

#### SUMMER SESSIONS, 1927

The first summer session of 1927 will begin June 13 and end July 27; the second session will begin July 28 and end September 10.

The following subjects will be given: First session—Common Law Actions, Principles of Legal Liability, Agency, Real Property II, Insurance and Taxation II. Second session—Personal Property, Domestic Relations, Labor Law, Quasi-Contracts, Mining Law and Suretyship.

The summer sessions are a regular part of the work of the school. The character of instruction and the amount and grade of work required are the same as in the regular session. The subjects are given by regular members of the faculty or by visiting professors from other recognized law schools. Full credit is given for attendance and subjects successfully completed. The requirements for admission are the same as those of the regular academic year. Qualified students from other law schools may be admitted as unclassified students.

Full details as to the summer sessions are contained in a separate announcement which the Secretary of the Law School will furnish on request.

#### ORDER OF THE COIF

The George Washington Chapter of the Order of the Coif was established July 6, 1926, and was formally installed November 18, 1926.



The Order of the Coif is a national honor society with chapters in twenty-four leading law schools. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Students are elected each year from the ten per cent of the Senior Class having the highest average.

#### PRIZES

*The John B. Larner Gold Medal.*—A gold medal donated by Mr. John Bell Larner, Chairman of the Board of Trustees of the University, is awarded annually to that member of the graduating class who attains the highest average grade in the entire course for the degree of Bachelor of Laws. Awarded in 1925-26 to Ernest Wilkinson.

*Samuel Herrick Prize.*—A prize of twenty-five dollars cash, donated by Samuel Herrick, Esq., is awarded annually to that member of the graduating class, excepting the winner of the gold medal, who has attained the highest average grade in the work of the third year. Awarded in 1925-26 to Moses Byington.

*The Ordronaux Prize Scholarship.*—A prize scholarship, known as "the Ordronaux Prize Scholarship," is awarded annually to that member of the second-year class taking the regular course who shall have attained the highest average grade in the work of the second year. The recipient of this prize will be entitled to receive credit for tuition fees to the extent of one hundred dollars in his third year; the diploma fee will remain payable. The award of this scholarship is purely personal and will not be commuted to a cash payment. The recipient of the scholarship must make use of it during the session next succeeding its award; otherwise it will be awarded to the person having the next highest average. Won in 1925-26 by Ralph West. Because the winner, Ralph West, was unable to make use of the prize during the session next succeeding its award, it was awarded to Phoebe Morrison, having the next highest average.

*Phi Delta Phi Prize.*—John Marshall's Inn, of Phi Delta Phi Fraternity, offers a prize of twenty-five dollars cash, to be awarded at the close of each school year to that man of the first-year class who shall have attained the highest average grade in the entire work of the year. Recipients are restricted to men who have made their initial registration in the Law School since the previous June, and who shall have completed at least eighteen semester hours of the courses prescribed for the work of the first year. Awarded in 1925-26 to Henry T. Kilburn.

*Phi Delta Delta Prize.*—Zeta Chapter of Phi Delta Delta Women's Legal Fraternity offers a prize of twenty-five dollars in gold, to be awarded annually to that woman member of the first-year class receiving the highest average of those registered as first-year students who shall not have entered the Law School prior to September of the

scholastic year for which the prize is awarded, and who shall have completed at least eighteen semester hours of study during that year. Awarded in 1925-26 to Marian Phelps.

*Ellsworth Prize.*—A prize of twenty-five dollars in gold, offered by Mr. Fritz v. Briesen, called the "Ellsworth Prize," is awarded for the best work done by a student in the subject of Patent Law Practice. Awarded in 1925-26 to Clinton Searl Janes.

*John Byrne and Company Prize.*—A prize offered by John Byrne and Company of Washington, D. C., of four volumes of their Legal Classics, is awarded each year to the student attaining the highest grade in Real Property II. Awarded in 1925-26 to Phoebe Morrison.

*Contracts Prize.*—A prize offered by Callaghan and Company, law book publishers, of a Cyclopedic Law Dictionary is awarded each year to the student attaining the highest grade in Contracts. Awarded in 1925-26 to Marion Phelps and Henry Kilburn.

*Phi Alpha Delta Prize.*—John Jay Chapter, Phi Alpha Delta Law Fraternity, offers a prize consisting of the set of Wigmore on Evidence, to the second-year student attaining the highest average in the required subjects of the first and second years. Awarded in 1925-26 to Phoebe Morrison.

*Delta Theta Phi Prize.*—Woodrow Wilson Senate of the Delta Theta Phi Law Fraternity offers a prize, consisting of a twenty-five dollar credit toward the purchase of law books, to be selected by the winner, to that student of the second-year class who shall have attained the second highest average grade in the work of the second year. Recipients are restricted to students who have completed at least twenty semester hours of work during the regular school year. No student who, upon the completion of two years' work in the Law School, has completed a total of more than sixty semester hours of work therein, or who at the beginning of his second year has completed less than twenty semester hours of work, is eligible for this prize. Awarded in 1925-26 to Phoebe Morrison.

*Kappa Beta Pi Prize.*—A prize of twenty-five dollars will be awarded by the Nu Chapter of Kappa Beta Pi Legal Sorority to that woman of the second-year class elected to the term benchers, who has the highest scholastic average. Awarded in 1925-26 to Phoebe Morrison.

Commencing with the academic year 1927-28, this prize will be awarded to that woman of the second year class who shall have attained the highest average grade in the required subjects of the first and second years.

#### STUDENTS' EMPLOYMENT

The University maintains an employment bureau to assist students in finding work to aid in their support. Many out-of-town students



take the United States Civil Service examinations in their various states and secure positions in the Government departments in Washington, where the hours of employment enable them to pursue the law course in the afternoon. Information concerning these examinations may be secured from the Civil Service Commission at Washington. Many other students secure private employment.

There are also opportunities for private employment which will help pay expenses, but the applicant must be on hand to take advantage of them. Prospective students should have the means of support for at least a half-year to give them time to secure positions.

### STUDENT LOAN FUNDS

Through the generosity of several friends of the University a number of scholarship loan funds are available to students in the Law School. Among these is the Henry Strong-William A. Maury Scholarship Loan Fund, established by the Henry Strong Educational Foundation in memory of the late Henry Strong and William A. Maury.

Students desiring to avail themselves of this aid should consult the Treasurer of the University.

### FEES

1. Registration fee (payable once upon first registration in the Law School) ..... \$5.00

#### 2. Tuition fee:

No tuition fee will be charged for less than one semester.

Students taking the regular full-time course for the degree of Bachelor of Laws, not less than twelve hours nor more than fourteen hours per week, per semester.....100.00

Students taking the regular part-time afternoon course for the degree of Bachelor of Laws of ten hours per week, per semester.... 75.00

All other students, per semester hour..... 8.00

Minimum tuition fee per semester..... 24.00

Students attending the summer sessions, per semester credit.... 8.00

#### 3. University fee:

Per semester (in advance)..... 4.00

This fee is charged to all students in the University. In return each student receives the following: The University Hatchet (the student newspaper), free admission to all home athletic contests held by the University, medical and hospital benefits, including not to exceed two weeks in any one year in the University Hospital, the use of the University gymnasium, and other privileges.

4. Graduation fee ..... 11.00

This fee includes one year's membership in the Alumni Association.

The approximate cost of the books for the first year.....\$45.00

#### PAYMENT OF FEES

The registration fee, the University fee for one semester and the tuition fee for at least one month are payable at the time of registration. After registration by a student, no part of the initial payment shall be returnable. The University fee for the second semester is payable at the beginning of that semester.

The tuition fee is charged by the semester and not by the month. It may, however, be paid in eight monthly installments in advance, each installment being due and payable on the first of the month. Students who fail to pay the current monthly installments of tuition fees by the tenth of the month are delinquent, and if such payment is not made on or before the twenty-first of the month such students will be dropped from the rolls.

Students who have been dropped for delinquency in the payment of tuition fees are not permitted to attend classes during the period of delinquency. Such students may, upon approval of the Dean, be reinstated upon the payment of the amount of delinquency and a three-dollar reinstatement fee.

No reinstatement during a semester will be granted after fifteen days from the date on which a student has been dropped for delinquency in the payment of fees.

#### REGISTRATION, CHANGES AND WITHDRAWALS

Registration, changes in courses and withdrawals may be arranged *only in the office of the Dean or Secretary*. Except where students make changes in this authorized way, they will be treated as registered for the subjects shown on the original registration blanks and will be charged fees accordingly.

Withdrawal from the Law School during a semester may be granted by the Dean upon *written application* setting forth the reasons for such withdrawal. Tuition fees will not be charged beyond the end of the month in which the withdrawal is granted. No other reduction of fees will be made.

*In no case will tuition fees be reduced because of non-attendance upon classes.*

All changes in courses must be made before the 10th of October for the first semester and before the 10th of February for the second semester, after which dates no changes in courses will be permitted without the approval of the Dean of the department in which the student is registered and the payment of \$2.00 for each change.

All fees are payable at the office of the Treasurer of the University, 2033 G Street N.W.



## STUDENTS IN THE UNIVERSITY

Names of students who have withdrawn or graduated are indicated by stars (\*); those who have entered since January 31, 1927, by daggers (†).

## DEGREES CONFERRED, MISCELLANEA





## STUDENTS REGISTERED IN THE DEPARTMENT OF ARTS AND SCIENCES, 1926-1927

Names of students who have withdrawn or graduated are indicated by stars  
(\*); those who have entered since February, 1927, by daggers (†).

### SCHOOL OF GRADUATE STUDIES

#### STUDENTS IN ATTENDANCE

- |  |  |
|--|--|
| <p>Akers, Sheldon Buckingham, Va.<br/>B. S., 1922, University of Virginia;<br/>A. M., 1925, George Washington University</p> <p>*Bailey, Lillie Porter, D. C.<br/>A. B., 1920, George Washington University; A. M., 1925, George Washington University</p> <p>Biehn, Mary, Ky.<br/>A. B., 1926, George Washington University</p> <p>Black, Charles Ashton<br/>A. B., 1914, Hendrix College; M. S., 1923, George Washington University</p> <p>Bradley, Mary Alice, Ind.<br/>A. B., 1918, Franklin College; A. M., 1926, George Washington University</p> <p>Brewer, Virginia Wemyss, Md.<br/>A. B., 1924, University of Maryland; A. M., 1926, University of Maryland</p> <p>*Brown, Mary, D. C.<br/>A. B., 1915, George Washington University; A. M., 1924, George Washington University</p> <p>Brumbaugh, Sara Barbara, Pa.<br/>A. B., 1907, Gettysburg College; A. M., 1921, Columbia University</p> <p>*Bryant, Katherine Gertrude, D. C.<br/>A. B., 1924, George Washington University</p> <p>Burritt, Loren, D. C.<br/>B. S., 1917, Maryland Agricultural College; A. B., 1927, George Washington University</p> <p>Burt, Gertrude Elisabeth, N. Y.<br/>A. B., 1926, George Washington University</p> <p>*Campbell, Gretchen, Pa.<br/>A. B., 1925, George Washington University</p> <p>†Campbell, Jean Tompson, D. C.<br/>A. B., 1926, George Washington University</p> <p>*Carver, Lynda Marie, Va.<br/>A. B., 1924, George Washington University</p> <p>†Chambliss, Emma H., D. C.<br/>Ph. B., 1908, University of Chicago</p> <p>Colbert, Alice, D. C.<br/>A. B., 1926, George Washington University</p> <p>†Conway, Margaret S., D. C.<br/>Ph. B., 1909, Chicago University; Ed. B., 1909, Chicago University</p> | <p>Culpepper, Albert Lloyd, D. C.<br/>A. B., 1926, University of New Mexico</p> <p>†Donovan, Elizabeth F.<br/>A. B., 1925, George Washington University; A. M., 1926, George Washington University</p> <p>Doran, Sarah L., N. Y.<br/>A. B., 1924, George Washington University; A. M., 1926, George Washington University</p> <p>Ferry, Thomas Francis, D. C.<br/>A. B., 1925, Georgetown University</p> <p>Foster, Ralph Baxter, D. C.<br/>A. B., 1913, University of Idaho; A. B., 1916, Oxford University; A. M., 1919, Oxford University</p> <p>†Franklin, Josephine Carroll, D. C.<br/>A. B., 1910, Hiram College; B. S., 1916, Ohio State University</p> <p>Gable, Paul DeLong, D. C.<br/>A. B., 1925, George Washington University; A. M., 1926, George Washington University</p> <p>†Girouard, Philias Henry, R. I.<br/>B. S., 1926, George Washington University</p> <p>Glass, Jewell J., Miss.<br/>A. B., 1926, George Washington University</p> <p>Gosnell, Ruby Lois, S. C.<br/>A. B., 1924, George Washington University; A. M., 1926, George Washington University</p> <p>Gottwala, David Hunt, Md.<br/>B. S., 1924, Carnegie Institute of Technology</p> <p>Heyl, Lucy Knight, D. C.<br/>A. M., 1927, George Washington University; A. B., 1925, George Washington University</p> <p>Hicks, Mildred M., Va.<br/>A. B., 1921, Randolph-Macon Women's College; M. S., 1925, University of Iowa</p> <p>Hirschman, Joseph, Pa.<br/>B. S., 1923, Carnegie Institute of Technology; LL. B., 1926, George Washington University</p> <p>†Huntington, Elisabeth M., D. C.<br/>A. B., 1922, Allegheny College</p> <p>Jacob, Kenneth Donald, D. C.<br/>B. S., 1913, Mississippi A. &amp; M. College; M. S., 1926, George Washington University</p> |
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- †Johnson, Falba Love, S. C.  
A. B., 1905, Columbia College for Women; A. M., 1911, Columbia University
- Johnson, Grace Dean, Ohio  
B. S., 1908, New York University; A. M., 1922, George Washington University
- Kimble, J. Norman, D. C.  
A. B., 1917, Washington Missionary College; A. M., 1924, Ohio State University
- Kuentsel, Ward Edward, Minn.  
B. S., 1917, University of Minnesota; M. S., 1924, George Washington University
- †Lapish, Joe Harry, D. C.  
B. S., 1924, George Washington University
- Lee, Elizabeth Louisa, D. C.  
B. P., 1923, Syracuse University
- \*Lind, Ida May, D. C.  
A. B., 1924, George Washington University
- Love, Katherine S., Va.  
A. B., 1917, University of Richmond; M. S., 1925, George Washington University
- Lowe, Edith Blinston, D. C.  
A. B., 1911, George Washington University; A. M., 1912, George Washington University
- Lowrey, Joe Jarman, Miss.  
B. S., 1910, Mississippi College; A. M., 1922, Peabody College
- \*Luce, George Palmer, Mich.  
A. B., 1914, Albion College; B. C. S., 1925, Y. M. C. A. College
- \*Lumsden, David Victor, D. C.  
B. S., 1921, Cornell University
- Lundstrom, Frank O., Colo.  
A. B., 1921, George Washington University; M. S., 1926, George Washington University
- \*Magee, Lottie Pearl, D. C.  
A. B., 1903, Geisner College
- \*Maitland, Florence, D. C.  
A. B., 1924, George Washington University
- Meisner, Harmon Stimbert, Utah  
B. S., 1922, University of Utah
- †Mickey, Leroy, Pa.  
B. S., 1926, Syracuse University
- Miller, Ruby Robinson, D. C.  
A. B., 1924, Mercer University
- \*Nevins, Ruby, D. C.  
A. B., 1917, George Washington University; A. M., 1922, George Washington University
- \*Perrin, Harry Wesley, D. C.  
A. B., 1923, George Washington University; A. M., 1924, George Washington University
- \*Porter, Edith Augusta, D. C.  
A. B., 1924, University of Wisconsin
- Presnell, Helen Wood, D. C.  
A. B., 1921, Union College
- Richmond, Susan Virginia, D. C.  
A. B., 1917, Randolph-Macon Women's College
- \*Rogers, Florence Hopkins, D. C.  
A. B., 1924, George Washington University
- \*Rose, Anna Lorette, Pa.  
A. B., 1912, George Washington University; A. M., 1924, George Washington University
- \*Rosenberg, Samuel, D. C.  
B. S., 1924, George Washington University
- Sanborn, Norris Henry, D. C.  
B. S., 1922, George Washington University
- Scanlan, John Thomas, Ill.  
B. S., 1923, University of Illinois; M. S., 1925, George Washington University
- †Service, Jerry Hall, Md.  
B. S., 1912, Rose Polytechnic Institute; M. S., 1917, Ohio State University
- †Shaw, Alice Helen, D. C.  
A. B., 1926, George Washington University
- \*Shewmaker, Lillian Alice, D. C.  
A. B., 1924, George Washington University; A. M., 1925, George Washington University
- Simon, Isaac Barney, Mass.  
B. S., 1915, Massachusetts Agricultural College; Ed. M., 1921, Harvard University
- Smith, Audley Lawrence, D. C.  
A. B., 1923, George Washington University; A. M., 1924, George Washington University
- Smith, Ilee Margaret, Iowa  
A. B., 1926, University of Iowa
- Stewart, Watt, W. Va.  
A. B., 1920, West Virginia Wesleyan University; A. M., 1925, University of Chicago
- \*Tener, Rea F., D. C.  
A. B., 1920, Marietta College; M. S., 1926, George Washington University
- †Titterton, George Francis, N. Y.  
B. S., 1925, New York University
- \*Vacher, Herbert Carroll, D. C.  
B. S., 1922, University of Texas; M. S., 1926, University of Nevada
- Vale, Grace, D. C.  
A. B., 1900, Dickinson College; A. M., 1926, American University
- †Vandershies, Samuel Pettit, Va.  
B. S., 1920, University of Virginia; M. S., 1921, University of Virginia
- \*VanEvers, Benjamin D., D. C.  
B. S., 1923, Coe College; M. S., 1926, Iowa State College
- \*Walker, Henry Moody, Tenn.  
A. B., 1922, Vanderbilt University; A. M., 1924, Peabody College; M. D., 1926, Vanderbilt University
- Walter, Henry Madison, D. C.  
B. S., 1924, University of Maryland; M. S., 1926, University of Maryland
- Watkins, Rhoda, Pa.  
A. B., 1906, George Washington University; A. M., 1910, George Washington University
- Webb, Byron Horton, Calif.  
B. S., 1925, University of California



Wilson, James Holton, D. C.  
A. B., 1922, Ohio State University;  
B. S., 1922, Ohio State University;  
M. S., 1923, Ohio State University

\*Woodfin, Madge Howlett, Va.  
A. B., 1916, University of Richmond;  
A. M., 1919, University of Chicago  
\*Wright, Frederick Holmes, Calif.  
A. B., 1925, George Washington University

## CANDIDATES FOR DEGREES

The degree for which the student is a candidate is given in parentheses following the name

Abel, James Frederick (Ph. D.), Nev.  
A. B., 1901, University of Nevada;  
A. M., 1918, Leland-Stanford University; *Major: Education*  
†Adams, James M. (A. M.), D. C.  
A. B., 1920, George Washington University; *Major: Botany*  
Aitchison, Clyde Stanley (A. M.), Ore.  
B. S., 1919, University of Washington; *Major: Mathematics*  
†Allison, Preston Marion (A. M.), S. C.  
A. B., 1919, University of South Carolina; *Major: History*  
Allen, Lattie Darnell (A. M.), Ky.  
A. B., 1908, University of Kentucky; *Major: English*  
Andrews, Elizabeth Marie (A. M.), D. C.  
A. B., 1923, George Washington University; *Major: Education*  
Anderson, Emil (A. M.), Minn.  
B. S., 1924, University of Minnesota; *Major: Physics*  
Bailey, Emmett Chester (M. S.), Wis.  
B. S., 1918, Beloit College; B. S., 1922, George Washington University; *Major: Mechanical Engineering*  
\*Bailey, Herbert (M. S.), D. C.  
B. S., 1924, Washington State College; *Major: Chemistry*  
Baraff, Charles (Ph. D.), N. Y.  
B. S., 1924, City College of New York; A. M., 1925, George Washington University; *Major: Mathematics*  
Barnes, Jesse Wright (Ph. D.), Calif.  
A. B., 1917, University of California; M. S., 1922, George Washington University; *Major: Chemistry*  
Barra, John Mario (A. M.), D. C.  
Ph. B., 1888, Ginnasio Liceo University; *Major: Spanish*  
Bassler, Anna Virginia (A. M.), D. C.  
A. B., 1924, George Washington University; *Major: English*  
\*Bateman, Lulu May (A. M.), Ind.  
A. B., 1911, Earlham College; *Major: Psychology*  
Batschelet, Clarence Edmund, (Ph. D.), Va.  
A. B., 1912, Franklin & Marshall College; A. M., 1926, George Washington University; *Major: Geography*  
Beauchamp, Ray Morse (A. M.), Idaho  
A. B., 1908, Drake University; *Major: Philosophy*  
Bekkedahl, Norman (M. S.), Minn.  
B. S., 1925, University of Minnesota; *Major: Chemistry*

Beller, Sadie W. (A. M.), D. C.  
A. B., 1919, George Washington University; *Major: Geology*  
Bennett, Nathalie Maurice (A. M.), N. J.  
A. B., 1922, George Washington University; *Major: Archaeology*  
\*Berger, Chiff Palsgrove, (A. M.), Penna.  
B. S., 1924, Franklin & Marshall College; *Major: Bacteriology*  
Berry, Edwina (A. M.), Miss.  
A. B., 1923, George Washington University; *Major: History*  
Berryman, Elizabeth Beller (A. M.), D. C.  
A. B., 1917, George Washington University; *Major: History*  
Bettelheim, Edwin S., Jr. (A. M.), D. C.  
A. B., 1926, George Washington University; L. L. B., 1924, George Washington University; L. L. M., 1925, George Washington University; *Major: Political Science*  
Biss, Rosabelle (A. M.), Md.  
A. B., 1918, Winthrop College; B. S., 1926, Columbia University  
Bisselle, Alice Ashland, D. C.  
A. B., 1922, George Washington University; *Major: Education*  
†Bixler, Mary K. (A. M.), D. C.  
A. B., 1926, George Washington University; *Major: Education*  
†Blackman, Harold S. (A. M.), Mo.  
A. B., 1922, State Teachers College of Missouri; L. L. B., 1927, George Washington University; *Major: Education*  
Blum, Janice (A. M.), D. C.  
A. B., 1925, George Washington University; *Major: Education*  
Blythe, John Henry (A. M.), Ky.  
A. B., 1920, George Washington University; *Major: Mathematics*  
\*Bolton, Helen Rebekah (A. M.), Iowa  
A. B., 1921, George Washington University; *Major: Education*  
Bond, Eason Jackson (A. M.), Ga.  
A. B., 1926, George Washington University; *Major: History*  
Booth, Nina M. (A. M.), N. Y.  
A. B., 1927, George Washington University; *Major: Spanish*  
Borden, Hazel A. (A. M.), Mass.  
A. B., 1926, George Washington University; *Major: Geology*  
\*Bose, Norma (A. M.), D. C.  
A. B., 1917, George Washington University; *Major: Art*  
\*Bouey, George Andrew (A. M.), D. C.  
A. B., 1919, William Jewell College; *Major: History*

- Bowman, Mary E. Quick (A. M.), Va.  
A. B., 1924, George Washington University; *Major: Zoology*
- Bowman, Paul William (A. M.), Pa.  
A. B., 1924, University of Pennsylvania; *Major: Botany*
- Boyd, James Irving (M. S.), N. Y.  
A. B., 1923, George Washington University; M. D., 1926, George Washington University; *Major: Chemistry*
- Bragaw, Charles Louis (M. S.), S. C.  
A. B., 1926, Davidson College; *Major: Chemistry*
- Bright, Harry Aaron (M. S.), Pa.  
B. S., 1912, Pennsylvania State College; *Major: Chemistry*
- Brinson, Roscoe (M. S.), Md.  
A. B., 1913, Texas Christian University; *Major: Chemistry*
- \*Broder, Simon (A. M.), N. Y.  
M. E., 1924, Cornell University; *Major: Education*
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 Johnson, Rosemond (Gen.), D. C.  
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 Jones, Frances Beaumont (Gen.), D. C.  
 Jones, Phillis Adelaide (Gen.), D. C.  
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 Kaminsky, Myrtle Frances (Gen.), D. C.  
 Kaminsky, Rosalie (Gen.), D. C.  
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 Knight, Perle (Gen.), D. C.  
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 Miller, Eva (Gen.), D. C.  
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 \*Mulligan, John, Jr. (Gen.), D. C.  
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 Nesbitt, Mary Katherine (Gen.), Kans.  
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 Pearce, Annie White (Gen.), D. C.  
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 Peterson, Hazel Alberta (Gen.), D. C.  
 Peterson, Thomas Harlin (Gen.), Tex.  
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 \*Roth, Jacob Herman (Gen.), N. J.  
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 Schaffert, John Leonard (Pre-Legal), D. C.  
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 Schenken, Dorothy Mae (Gen.), D. C.  
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 Shapiro, Lewis Harrison (Pre-Legal), D. C.  
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 \*Shoemaker, William Henry (Gen.), D. C.  
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 \*Sternak, John Joseph (Pre-Med.), Conn.  
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 Spitzer, Solomon (Gen.), Mass.  
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 \*Startzel, Joseph Edward (Pre-Legal), D. C.  
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 Taxi, Ida Sarah (Pre-Legal), D. C.  
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 Taylor, Helen Sewall Child (Gen.), D. C.  
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 Terry, George McGrew (Pre-Legal), Okla.  
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 Texter, Kenneth Gordon (Pre-Legal), D. C.  
 theis, Ethel Jane (Gen.), D. C.  
 Thode, Adele R. (Gen.), N. Y.  
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 Thomas, John Roy (Com.), N. Y.  
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 Toal, Frederick Clifton (Gen.), S. C.  
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 Trudgian, Landon Williamson (Pre-Legal), D. C.  
 Trueworthy, Burnett Thurston (Pre-Med.), D. C.  
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 \*VanMeter, Charles Leslie (Gen.), D. C.  
 \*VanWagoner, Leah (Gen.), Utah  
 Vass, George William (Com.), D. C.  
 Veitch, Helen Roberts (Gen.), Md.  
 †Verner, Arthur Alexander (Pre-Med.), Ireland  
 \*Vincent, Alice Lucille (Com.), Wis.  
 \*Vinyard, Caroline (Gen.), Del.  
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 \*Vournas, George Christian (Gen.), D. C.  
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 \*Wagner, Winfield Frederick (Pre-Legal), Pa.  
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 Ward, Vivian H. (Gen.), D. C.  
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 \*Warren, Ora Lee (Gen.), N. C.  
 Warrington, Mary Elizabeth (Gen.), Del.  
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 \*Wattles, Constance Taylor (Gen.), D. C.  
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 †Webster, William Gordon (Gen.), D. C.  
 †Weckler, Esther R. (Pre-Legal), D. C.  
 Wood, Marian Rebecca (Gen.), D. C.  
 Weiss, Edwin Armstrong (Gen.), D. C.  
 \*Weiss, Laura (Gen.), D. C.  
 \*Weikel, Frank (Gen.), Va.  
 \*Weinstein, Samuel (Pre-Med.), D. C.  
 Westzel, Frank Harvey (Gen.), D. C.  
 Wells, Katherine Elizabeth (Gen.), Va.  
 Wenschel, Anna Louise (Gen.), D. C.  
 Wester, Horace Volney (Gen.), Va.  
 Wester, Robert Emerson (Pre-Med.), Va.  
 Wheeler, Elizabeth Beale (Gen.), D. C.  
 \*Wheeler, John Leonard (Gen.), Mont.  
 Whitney, Virginia Carter (Gen.), D. C.

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 †White, Helen Louise (Pre-Legal), D. C.  
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 Wilcox, Anna Louise (Gen.), D. C.  
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 Wilkins, Magnus Waite (Gen.), Va.  
 Willox, Caroline Dodge (Gen.), D. C.  
 Willier, Mary A. (Gen.), D. C.  
 \*Willis, Dewey Earl (Gen.), Md.  
 Willis, Mary May (Gen.), D. C.  
 Willson, Eleanor Everett (Gen.), D. C.  
 \*Williams, John Allen (Pre-Legal), Va.  
 Williams, Leora Jean M. (Gen.), D. C.  
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 Williamson, William F. (Pre-Legal), Okla.  
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 Wilson, Jessie Lenore (Gen.), N. C.  
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 Wright, Elizabeth Howard (Gen.), D. C.  
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 Young, Ford Evans (Pre-Legal), Md.  
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 Zartman, Ross Barnard (Com.), Ind.

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 Adams, Edward Everett (Gen.), D. C.  
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 Andresson, Ruth Virginia (Gen.), D. C.  
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 Atkins, Grace Julia (Gen.), D. C.  
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 Mendelsohn, Matthew (Pre-Med.), D. C.  
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 Menzel, Robert Henry (Com.), D. C.  
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 Moore, Virginia Annette (Gen.), D. C.  
 Moreland, Margaret Kennedy (Gen.), D. C.  
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 Stelman, Ivan Jay (Com.), Pa.



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 Stephenson, James LeGrand (Gen.), N. C.  
 †Sturdevant, Claude R. (Gen.), N. Y.  
 Swiger, Paula Edith (Com.), W. Va.  
 Talbot, Charles (Gen.), Vt.  
 Tauner, Ivins S. (Pre-Med.), Utah  
 Taylor, G. Douglas (Pre-Legal), Utah  
 Thomas, Ward (Pre-Legal), N. Dak.  
 Thorn, Anna (Gen.), W. Va.  
 \*Toner, Caroline Estelle (Gen.), D. C.  
 Trilley, O. Edward (Gen.), Neb.  
 \*Trumble, John Thomas (Gen.), Ga.  
 Tulman, Louis Max (Pre-Med.), N. Y.  
 Turner, Fanny B. (Gen.), Va.  
 Vesey, Howard Wade (Pre-Legal), D. C.  
 †Walek, Earl Clifford (Pre-Legal), Pa.  
 †Wheaton, Clare Allen (Pre-Legal), D. C.  
 \*Widman, Edward T. (Gen.), Pa.  
 †Wingo, James G. (Gen.), P. I.  
 \*Zimkind, Paul G. (Pre-Med.), N. J.

## SPECIAL PRE-MEDICAL STUDENTS

- \*Abramson, Irving, D. C.  
 Andree, Richard Theodore, D. C.  
 Atherton, Jack Griffin, Md.  
 \*Bateman, Jeanne Cecile, D. C.  
 †Blizwas, Abe, D. C.  
 Bradley, William Oscar, D. C.  
 Brown, Ralph Donald, Vt.  
 \*Budd, Julius Joseph, N. Y.  
 Ryer, Maurice Yale, N. J.  
 Caravella, Joseph, D. C.  
 Cartwright, Joseph L., Jr., Mo.  
 Castillo, Jose Francisco, Porto Rico  
 Cliff, Arthur Edgar, D. C.  
 †Darling, Ralph Edwin, N. Y.  
 Deas, Milton Ridgely, Va.  
 \*Delaney, Edward John, N. Y.  
 \*Eckstein, Harry Reynolds, N. Y.  
 Fichman, Alfred Meyer, Conn.  
 \*Forte, Salvatore Vincent, N. Y.  
 \*Garcia, Luis, Porto Rico  
 Garfinkle, Herbert, D. C.  
 Glover, Mervin Wilbur, D. C.  
 \*Gold, Abraham Winston, N. Y.  
 Green, Holland Harvey, Ind.  
 Hartgen, William Edward, Pa.  
 Hatah, Gertrude, D. C.  
 Kossow, Morris, D. C.  
 Lebon, Lorraine, D. C.  
 \*Lilly, Harvey Alexander, Va.  
 Long, Clarence Byron, D. C.  
 McCarthy, John L., D. C.  
 †McLaughlin, Fred Beedham, Pa.  
 \*Maicran, Jeraldo Ralph, N. J.  
 Mark, Benjamin Ralph, D. C.  
 Martin, Wilbur Wynn, D. C.  
 Mason, Blanche Andrews, Iowa  
 Miller, Russell P., D. C.  
 Mohr, Charles Franklin, D. C.  
 Newman, Howard Ellsworth, D. C.  
 Neyman, Nathan, Mont.  
 Olson, Robert Mortimer, D. C.  
 \*Osterhout, Karl Jackson, D. C.  
 \*Polkinhorn, John Henry, D. C.  
 \*Popkins, Joseph Edwin, D. C.  
 \*Pressgrove, William Houston, D. C.  
 Rees, William Cheevers, Idaho  
 Rosson, Bernard Allen, D. C.  
 Schuur, Ruben, D. C.  
 Shankel, Harry Weyman, Pa.  
 Shubert, Edward, Pa.  
 Simons, William Berzel, Conn.  
 Stohr, Charles Leland, Calif.  
 Stubbs, Donald Harrison, D. C.  
 Taylor, David McCray, D. C.  
 \*Wasson, David Boyd, Pa.  
 Weeks, William Addison, D. C.  
 Wootton, Roland, Henry, D. C.

## SPECIAL PRE-LEGAL

- Abelhouse, David Samuel, Pa.  
 Barnes, Roger Ensor, Md.  
 Bein, Kate, D. C.  
 Bradley, James Blake, D. C.  
 Bruns, Charles John, D. C.  
 Brown, Harry Moore, N. C.  
 Brown, Herbert Collier, D. C.  
 †Brown, Lucy Williams, D. C.  
 Burton, Lawton, D. C.  
 \*Carmalt, Leonard Berkeley, D. C.  
 Carpenter, Samuel R., Utah  
 \*Coffman, Morris Shalman, Va.



- \*Cook, Walter Neil, D. C.  
 Cragun, John Wiley, Utah  
 \*Cusick, William Francis, Va.  
 DeBruler, Curran John, D. C.  
 Diemer, William Frederick, Jr., D. C.  
 England, Walter Albert, Ohio  
 \*Falecy, William, N. J.  
 †Finney, Cecil Glen, W. Va.  
 Fishman, Louis, D. C.  
 Fleming, William Wright, D. C.  
 Fletcher, Emmett Lee, Fla.  
 Glover, Elmer Wheeler, Ohio  
 Goodman, Leo Sydney, Conn.  
 \*Henderson, Robert Elliott, D. C.  
 Highsmith, Jasper H., D. C.  
 †Holland, Frank M., Ga.  
 Hubbard, Annie Louise, D. C.  
 Kaltz, Sidney S., N. J.  
 †Kardys, Frank Edward, Conn.  
 Kieferle, George Raymond, Pa.  
 Lenta, Lucy Richmond, N. C.  
 Luce, Clifton Hadley, D. C.  
 \*Lyman, William Robert, D. C.  
 McNamara, William Barry, Ohio  
 Murphy, Howard Meredith, Kans.  
 Peatross, Erin Branson, D. C.  
 Pledger, Reginald Harrison, D. C.  
 Popham, Kenneth Robert, Mont.  
 Raley, Irving James, D. C.  
 Reinamith, Harold G., D. C.  
 Richart, Ruth Elizabeth, Va.  
 \*Robinowitz, William, D. C.  
 Robinson, Lawrence Nazor, Md.  
 Roe, Jessie Louise, Ala.  
 Shaw, Richard, Kans.  
 \*Siegal, Abner, Md.  
 Simpson, William Samuel, Va.  
 †Thomas, Paul Marion, W. Va.  
 \*Tio, Juan Angel, 2nd, Porto Rico  
 Tuhy, Stephen, Minn.  
 Ward, Lewis Hall, D. C.  
 Williams, Margery, D. C.  
 Wineland, Eugene Harold, Ill.

## SPECIAL STUDENTS

- †Abbott, George M., Ohio  
 †Abbott, John Shelley, Ark.  
 Abramson, Dorothy Grace, D. C.  
 \*Adams, John, D. C.  
 †Adlerberg, Basil Alexander, Russia  
 \*Ahlers, Beulah Whittington, D. C.  
 A. B., 1918, Randolph-Macon College  
 Albert, John Jacob, D. C.  
 †Aldrich, Helene Rachel, Ill.  
 B. O., 1915, Valparaiso University  
 Alexander, Mary Pearl, D. C.  
 Allen, Robert Sharon, D. C.  
 A. B., 1921, University of Wisconsin  
 †Allen, Rudolph S., Md.  
 Anderson, Helen Conley, Mass.  
 A. B., 1921, Mt. Holyoke College  
 Antonsanti, Raoul Alexander, Porto Rico  
 Apri, Ella, D. C.  
 A. B., 1927, George Washington University  
 \*Arthur, Kathryn Harrison, D. C.  
 \*Arundel, R. Windsor, N. Y.  
 \*Atkins, Lewis Franklin, D. C.  
 †Auner, Hannah Leah, D. C.  
 \*Avery, Marjorie Sarah (1st), D. C.  
 Avery, Marjorie Sarah (2nd), D. C.  
 \*Bacalso, Julian Piasco, D. C.  
 \*Baden, Hester Beale, D. C.  
 \*Baer, Francis Meyer, D. C.  
 Bagges, Henry McKean, D. C.  
 \*Bailey, Ida M., D. C.  
 Ballinger, Ethel May, D. C.  
 Ballinger, Bertha Ruth, Pa.  
 †Balter, Gertrude Hortense, D. C.  
 †Banks, Dolly Madison, Ky.  
 Banks, Edna Sterling, N. J.  
 Barker, Clifford, O. R. I.  
 \*Barkley, David M., D. C.  
 Barnes, Lucius, D. C.  
 \*Barnes, Thelma Boyd, D. C.  
 \*Barriek, Mary Elizabeth, D. C.  
 Barry, Kathleen P., D. C.  
 Bates, Edith Marie, D. C.  
 †Bauer, George M., Pa.  
 †Bealer, Mrs. P. M., D. C.  
 Beall, Susie Catherine, Md.  
 Beauchamp, Mary Susan, Va.  
 Becker, Gertrude Emelia, D. C.  
 A. B., 1926, George Washington University  
 Becker, Rose Eaton, Ind.  
 Belk, Vida Mary, S. Dak.  
 B. S., 1923, South Dakota College of Agri. and Mech. Arts  
 Bell, Virginia Lee, Va.  
 Bertrand, Elisabeth Marie, D. C.  
 Black, Sarah Hilda, Kans.  
 Blackmon, Ellen Alma, Miss.  
 Blaine, Margaret, Pa.  
 \*Blake, Thomas Richard, D. C.  
 Blaurock, Veronica F., N. Y.  
 †Blease, Myrtle Miller, Va.  
 \*Bliss, Stella, D. C.  
 †Bond, Claris May, D. C.  
 \*Borchertling, Walter Henry, D. C.  
 B. S., 1923, Purdue University;  
 LL. B., 1926, Georgetown University  
 \*Borroughs, Allan Fraser, Ill.  
 LL. B., 1924, University of St. Louis;  
 LL. M., 1926, Georgetown University  
 \*Boswell, Eleahora, D. C.  
 A. B., 1921, Bryn Mawr College;  
 A. M., 1923, Bryn Mawr College  
 Bosworth, Florence Thompson, D. C.  
 Botazzi, Carmel Margaret, D. C.  
 Boyer, Wilfred E., D. C.  
 Boykin, Katharine Lillian, D. C.  
 \*Bozonsky, Elisabeth Katherine, D. C.  
 \*Bradley, Suzanne, D. C.  
 Brady, James Maple, D. C.  
 Brand, Oscar Leonard, Md.  
 Braswell, Ethel Allene, Miss.  
 Brigham, Mary Elizabeth, D. C.  
 Bright, Gertrude O., D. C.  
 \*Brillhart, Frances Serena, D. C.  
 †Brinton, Mianie J. C., Va.  
 \*Brockett, Georgie Seymour, Va.  
 Brown, Francis Isabelle, D. C.  
 A. B., George Washington University, 1925  
 Brown, Grace, Tenn.  
 A. B., 1911, Lake Erie College;  
 A. M., 1915, University of Chicago  
 Brown, Mabel A., Ill.

- Brown, Madeline Radford, D. C.  
 Brown, Paul Castle, Mich.  
 \*Brown, Theodore Newton, D. C.  
 Brown, Wave, D. C.  
 \*Brune, Mary Oron, D. C.  
 †Brunett, Harry, D. C.  
 Buck, Radia Florence, W. Va.  
 †Buckner, James Floyd, D. C.  
 Buschale, Emma A., Iowa  
 Bundick, Harriet Ellen, D. C.  
   A. B., 1926, George Washington University  
 †Burch, Mittie Eugenia  
 \*Burdette, Robert C., Md.  
   B. S., 1923, University of Maryland;  
   M. S., 1926, University of Maryland  
 \*Burfoot, Jennie, N. C.  
 Burger, Sarah Frances, D. C.  
 Burkhardt, Ward M., Pa.  
 †Burklin, Lydia Ann, D. C.  
 †Burns, Holly, D. C.  
 Baynitsky, Katherine Cooper, D. C.  
 Callahan, Robert, D. C.  
 \*Campbell, John McPherson, D. C.  
 Campbell, Myrtle, Ala.  
 Cantrell, Georgia Edith, Colo.  
 Carden, Samuel Poe, D. C.  
   A. B., 1918, George Washington University  
   A. M., 1922, American University  
 Carlson, Vivian, N. Y.  
 Carmon, Marcus, D. C.  
 Carpenter, Mary F., D. C.  
 Carr, Margaret J. S., Md.  
   A. B., 1926, George Washington University  
 \*Carter, Bae, D. C.  
 \*Carter, Alfred Ball, D. C.  
 Cassie, Earle Willmont, D. C.  
 \*Cata, Edward, N. M.  
 \*Cavanaugh, Mae Elizabeth, Va.  
 Chamblin, Margret, Va.  
 Chandler, Leland William, Va.  
 Chartrand, Emerson James, D. C.  
 Chase, Ruth Judith, Md.  
 Chick, Louise Shipp, Ga.  
   A. B., Agnes Scott College  
 Christian, Corinne C., La.  
 †Clark, Duwayne G., D. C.  
   A. B., 1923, Leland Stanford University  
 Clarke, Harriet Brookfield, D. C.  
 Clarke, Lada Payne, D. C.  
 Clayton, Alice Rebecca, Md.  
 \*Clements, Julia Lee, D. C.  
 Cochran, George Bond, D. C.  
 Coleman, Lester Sherman, Kans.  
 Coleman, Mahel I., Iowa  
 \*Coleman, Milton Ray, D. C.  
 †Collins, Dorothy K., D. C.  
 Collins, Marie E., D. C.  
 Collins, Patrick Joseph, D. C.  
 \*Collins, Mrs. Robert J., D. C.  
 \*Colquitt, Dolores B., D. C.  
 Colvin, Esther Marie, Ill.  
   A. B., 1921, University of Illinois  
 Colvin, Lura Vallie, D. C.  
 Comer, Virginia Margaret, D. C.  
 \*Compton, Edna Mae, Md.  
 \*Conger, Paul Sidney Wolverton, Wisc.  
   B. S., 1923, University of Wisconsin;  
   M. S., 1921, University of Wisconsin  
 Connor, Mary, D. C.  
 \*Connor, Thomas Bernard, D. C.  
 †Conroy, Louis M., Utah  
 Coombs, Myrtle Randall, Mass.  
 \*Coon, Ethel Louise, Ohio  
 Cope, Beulah Mitchell, D. C.  
 Copter, Ellen M., D. C.  
 Craighill, Richard Starr, D. C.  
 Crane, Evelyn, N. J.  
 \*Crawford, Jane Elizabeth, D. C.  
 †Crawford, Leone VanWart, Md.  
 Creeden, Sara A., D. C.  
 Crembie, Albert Bartholomew, Conn.  
 \*Crump, Janie Knoxie, D. C.  
 Cullinan, Edmund, N. Y.  
 \*Cummings, Helen Marie, D. C.  
 \*Cummings, Mary Kathryn, D. C.  
 \*Czichos, Paul Adolphus, D. C.  
 \*Daly, James B., D. C.  
   B. S., 1922, Catholic University  
 Darley, Mary Lillian, Va.  
 \*Dauid, Dorothy M., D. C.  
 \*Davis, Adelaide, Mass.  
 \*Davis, Ruth, D. C.  
 Davison, David Samuel, D. C.  
 \*Dawson, Francis Clyde, D. C.  
 Dean, Eloda B., D. C.  
 \*Deibler, Florence, Md.  
 \*Deibler, Lillian Erma, Md.  
 \*Demaine, Julia Lewis, Va.  
 \*Denicke, Bert Anthony, Fla.  
 Denison, Nellie May, Canada  
 †Devlin, Veronica Anne, D. C.  
 †Dixon, Richard Atwater, D. C.  
 Disnukes, Mary Nell, D. C.  
 \*Dodd, Atia Evangeline, D. C.  
   A. B., 1923, George Washington University  
 \*Dodd, Catherine F., D. C.  
   A. B., 1918, Wheaton College;  
   M. Ed., 1922, Harvard University  
 Dolinsky, Ida, D. C.  
 †Dunigan, Horace W., Ohio  
 \*Donellan, Marguerite Augustine, N. Y.  
 \*Doolittle, Raymond F., Mich.  
 Dotson, Gertrude, W. Va.  
   A. B., 1923, West Virginia University  
 Douglas, Elsie Young, Fla.  
   A. B., 1923, George Washington University  
 J. L. B., 1912, Stetson University  
 †Drake, Barriene, D. C.  
 \*Draper, Walter Scott, Tenn.  
 Dudley, Virginia, D. C.  
 †Duffy, Marcus, N. C.  
 Duganne, Leslie R., D. C.  
 \*Dulin, Bernice A., D. C.  
 \*Dunbar, Marguerite Mary, D. C.  
   A. B., 1914, New York State Teachers College  
 \*Duncan, James, R. I.  
 \*Eckman, James Roy, Pa.  
   A. B., 1910, West Virginia University; A. M., 1917, Harvard University; M. S., 1921, George Washington University; Ph. D., 1924, Johns Hopkins University  
 \*Edelsohn, Bella, D. C.  
 †Edler, George C., D. C.  
   B. S., 1911, University of Illinois  
 Edwards, Edith V., Ohio  
 Edwards, Marie Hicks, D. C.  
 Egl, Clara K., N. J.  
 Hützel, Walter Byron, Pa.



- †Elder, Helen Marie, Iowa  
 Elefasiades, George, D. C.  
 Ellerbrook, Charlotte, D. C.  
 Ellera, Elizabeth, D. C.  
 \*Ellis, Virginia M. C., D. C.  
 †Empet, Mabel Esther, Md.  
 Endres, Charlotte Marie, D. C.  
 Epstein, Simon, D. C.  
 Erwin, Katherine Adelaide, N. C.  
 A. B., 1915, North Carolina College  
 for Women  
 \*Farquhar, Mina, Colo.  
 †Farrar, Joan, D. C.  
 \*Fay, Libby Helen, D. C.  
 Fearnow, Elsie Vivian, D. C.  
 Feather, Edith, D. C.  
 †Ferguson, James Houston, D. C.  
 Ferguson, Robert Clark, N. Y.  
 \*Ferguson, Roland Johnson, Va.  
 \*Ferman, Abraham Leonard, D. C.  
 †Ferrill, Agnes Lillian, Ill.  
 Ferris, Laura Eva, N. Y.  
 Feustel, Irvin Carl, D. C.  
 \*Feustermaker, Verna, D. C.  
 \*Finch, Flora E., D. C.  
 Finegan, Helen Thresa, D. C.  
 \*Finke, Elizabeth Louise, Va.  
 \*Finkel, Helen Gertrude, D. C.  
 Fisher, Frances Morse, D. C.  
 A. B., 1926, George Washington  
 University  
 Fisher, Ruth Mildred, Va.  
 Fitzgerald, John Joseph, Conn.  
 A. B., 1926, Holy Cross College  
 Fitzpatrick, F. Stuart, D. C.  
 A. B., 1914, Trinity College  
 †Flaxman, Harry M., Conn.  
 Floyd, Harvey Stafford, S. C.  
 A. B., 1923, Wofford College  
 \*Fly, Lavinia Young, D. C.  
 \*Fly, Elizabeth, Ill.  
 Folta, Kathryn Lavinia, D. C.  
 Foote, Myrtle Bennett, Md.  
 Ford, May Alice Irene, D. C.  
 Fortney, Pauline Bessie, Pa.  
 Francisco, Sister Mary, D. C.  
 Fraser, Margaret, D. C.  
 Frerika, Bertha, Wis.  
 Friede, Pearl Robison, D. C.  
 Fuchs, William Barrett, D. C.  
 Funk, Kate Cline, D. C.  
 Gage, Charles Ellsworth, Va.  
 Gallagher, Vera Louise, D. C.  
 \*Gallahorn, James Thomas, D. C.  
 \*Gamble, Jeannette, D. C.  
 †Gandy, Harry, Jr., D. C.  
 Garber, Sara E., D. C.  
 \*Gardiner, Elizabeth, France  
 Gardner, Helen Wood, D. C.  
 Gardner, Paul, Calif.  
 Gardner, Wanda, Pa.  
 Garnett, J. Muscoe, D. C.  
 Gartland, Robert Joseph, D. C.  
 Gary, Mrs. Margaret P., D. C.  
 Gault, Paul Samuel, D. C.  
 \*Geniesse, Levi Alphonse, Wis.  
 B. S., 1924, University of Notre  
 Dame  
 †Gerick, Elsie, D. C.  
 A. B., 1904, University of Nebraska  
 Germain, Helen E., D. C.  
 Gettinger, Ted, Okla.  
 †Gibbs, Clayton Robert, D. C.  
 \*Gibson, William Theodore, D. C.  
 Giles, Anna Ruth, S. C.  
 A. B., 1925, Greenville Women's  
 College  
 Gilman, Iva Ruth, Mo.  
 Gingras, Helene M., D. C.  
 Gine, Grace Susie, Kans.  
 Ginehak, Ida Lillian, D. C.  
 Giesey, Edith R., Kans.  
 B. S., 1920, Kansas State Teachers'  
 College; A. M., 1926, Columbia  
 University  
 \*Goff, Lois Clara, D. C.  
 Gold, Mrs. Virginia, W. Va.  
 Golladay, Dorothy Katherine, D. C.  
 Gooch, Mary Cecil, Ky.  
 †Goodwin, Frank S., Wash.  
 A. B., 1925, University of Washing-  
 ton  
 Grant, Mrs. Ernest Cora, D. C.  
 Graumann, Raymond Louis, Va.  
 Gray, Ruth Augusta, D. C.  
 Greasley, Eleanor Frances, D. C.  
 Greenwood, Grace, Ill.  
 \*Gregory, Reginald, D. C.  
 Griffin, Helen, D. C.  
 A. B., 1921, Vassar College  
 Griffith, Mary Ann, D. C.  
 \*Griffith, Pearle Alice, Va.  
 \*Grogan, Anne Marie, D. C.  
 †Grosman, Joseph Hillard, Conn.  
 †Grote, Herbert Arthur, N. Y.  
 Groves, Louise, D. C.  
 \*Guerrero, Louis Richard, D. C.  
 Haig, George, Conn.  
 Hall, Mary, D. C.  
 A. B., 1924, Vassar College  
 \*Hall, Mary Elizabeth, D. C.  
 Halper, Leolia Elizabeth, D. C.  
 Haltigan, Helen Agnes, D. C.  
 Hamilton, Hugh Ralston, D. C.  
 \*Hanna, Helen, Md.  
 Hansen, Leopoldine, Mich.  
 \*Harper, Jewell Raymond, Md.  
 Harper, Mertyl R., D. C.  
 Harralson, Ethel C., D. C.  
 \*Harrison, Lloyd, D. C.  
 †Harrison, Mary I., D. C.  
 Harrison, Max Blair, Pa.  
 Harrow, Elizabeth, N. Y.  
 Hart, Elizabeth Mary, D. C.  
 Hartman, Charles Julius, D. C.  
 †Hartman, Elizabeth, Pa.  
 Hayes, Mary Dorothy, N. Y.  
 †Hedrick, Lois Lurline, D. C.  
 \*Hendrickson, Henry Brenton, D. C.  
 A. B., 1926, George Washington  
 University  
 Hendrickson, Lydia, D. C.  
 Henry, Helen Hall, D. C.  
 Herman, Irving Stanley, D. C.  
 \*Herdon, Effie, Miss.  
 Hertell, Imogene Talley, D. C.  
 Hervey, George Washington, D. C.  
 B. S., 1915, Rutgers College; A. M.,  
 1920, University of Missouri  
 Hess, Eloise, D. C.  
 Hesterberg, Margaret Madeline, D. C.  
 Higgins, Eugene W., D. C.  
 †Hill, Alice Marguerite, D. C.  
 Hill, Esther, Ohio  
 \*Hill, John Clement, Pa.  
 Hilton, George Pike, D. C.

- \*Hines, George Millard, D. C.  
A. B., 1923, Western Maryland College
- †Hoare, Alice Abbott, D. C.
- Hobbs, Elisabeth Parker, D. C.  
A. B., 1924, George Washington University
- Hoffman, Carl Cooke, Pa.  
Ph. G., 1925, University of Pittsburgh
- †Hogan, Benjamin Walker, Va.  
Holland, Willis Seabury, D. C.
- †Holmes, Miriam Eva, D. C.  
A. B., 1919, Kansas University
- \*Houch, Julie Winifred, N. Y.  
A. B., 1925, Vassar College
- Howell, Mary Nelaine, S. C.
- Hoxsey, Minnie Mary, D. C.
- †Hudson, Mary Elizabeth, D. C.
- †Hughes, LeClaire Grace, Va.
- \*Hughes, Raymond James, Conn.
- †Hullish, Mrs. David N., Va.
- \*Huls, Laura May, D. C.
- \*Hunt, Odessa, D. C.
- Hunter, Hazel M., N. C.
- \*Hyde, Sadie M., Okla.
- Hyland, Catherine Constance, Ohio
- \*Inabinet, Noah Ogden, D. C.
- †Jackson, Newton, Tex.
- Jacoby, Thomas Edwin, Md.
- James, Thelma Amelia, Kans.
- James, Charles Edward, Md.
- \*Jauskens, Elizabeth, D. C.
- \*Jeffries, Eugenia H., S. C.
- †Jester, James Gross, D. C.
- †Johnson, Edna C., D. C.
- \*Johnson, Margaret H., Ohio  
A. B., 1916, Western Reserve University
- \*Johnson, Margaret Miller, D. C.
- †Johnson, Marie Evelyn, Minn.
- †Johnson, Mary Louise, D. C.
- Johnston, Hazel, Fla.
- Joseph, Lewis C., Utah
- Joseph, Reuben A., Utah
- Kagan, Doris, D. C.
- Kalb, Dorothy B., D. C.
- †Kaminsky, Nathan Leon, D. C.
- Kammersrud, Klara, Minn.
- Kaufman, Wilbur R., Pa.
- Kellogg, Clyde Elmer, D. C.
- Kelton, Edith R., D. C.
- \*Kemp, Ida Ellen, D. C.
- \*Kennedy, Abbie, Tex.
- Kennedy, Jane Elizabeth, D. C.
- \*Kennon, Frances Mary, D. C.
- Ketchum, Miriam Blaisdale, Ga.
- \*Keys, Thomas Hansen, D. C.
- †Kim, Chang Chul, Korea
- King, Allen Edward, D. C.
- King, Arethabahl, D. C.  
A. B., 1903, Harvard University;  
A. M., 1904, Harvard University;  
L. L. B., 1906, Harvard University
- King, Claire M., D. C.
- King, Mrs. Ethel Woodward, Va.
- \*King, Thomas Henry, D. C.
- \*Klak, John James, Wis.
- Klein, Frank Nicolas, D. C.
- Kline, John Reut, Mo.  
B. S., 1917, Missouri University;  
L. L. B., 1926, George Washington University
- Klopper, Mabel Morgan, D. C.
- \*Knochtel, Maxwell McMichael, Mich.  
A. B., 1923, George Washington University
- \*Knudson, Fritz William, D. C.
- \*Kohl, Bertha, D. C.
- Kohr, Morgan Julius, Pa.
- †Kohr, S. Louise, D. C.
- \*Kracke, Ernest Augusta, D. C.
- Kraiss, Dorothea Eva, Pa.
- \*Kramer, Hattie, Va.
- Krebs, William Lawrence, D. C.
- Kreider, Mary Magdalena, Pa.
- Kreig, Elsie Margaret, D. C.
- †Krueger, Paul A., S. Dak.
- Kulzon, Uldarics S., D. C.
- \*Kushlevsky, Charlotte Lucille, D. C.
- †Ladd, Richard E., Vt.  
A. B., 1923, Harvard University
- \*Laird, Nina Kathryn, D. C.
- Landes, Nathan, N. Y.
- †Lano, Minnie Adeline, Pa.
- †Laughlin, Charles Vail, Iowa
- †Lawrence, Mary Beatrice, D. C.  
A. B., 1911, George Washington University
- Ledman, Hornbaker B., Va.
- \*Leeman, Jack, D. C.
- †Lenta, Edna Hartman, Va.
- \*Leonard, Grace Frances, N. Y.
- \*Lepine, Leon, Mo.
- Lieberman, George, N. Y.
- \*Lindberg, Gudrun B., D. C.
- Lindley, Laura, Mich.
- Linkins, John Thomas, D. C.
- Linkins, Mary Bernadette, D. C.
- †Littlepage, Louise, D. C.
- †Livingston, Claul J., D. C.
- Lowe, Jennie, D. C.
- Loy, Arthur W., Ohio  
A. B., 1921, Oberlin College; M. D., 1926, Western Reserve University
- Ludtke, Charles L., Minn.
- \*Luhn, Harriet Emma, D. C.
- Lynch, Mary Margaret, D. C.
- Lynn, Evelyn Jett, Va.
- \*Lynskey, Elizabeth Mary, Minn.  
A. B., 1919, University of Minnesota;  
A. M., 1920, University of Minnesota
- Lyon, Florence Louise, D. C.
- \*Lyons, Mrs. John Grace Hugh, D. C.
- McAllister, Gladys, N. Y.
- †McBride, Aline Virginia, D. C.
- McCarthy, Hallie May, D. C.
- \*McColligan, Mary Allen, Mass.
- McCormick, John Dominic, D. C.  
B. S., 1914, George Washington University; B. S., 1921, George Washington University
- \*McCune, Evelyn Elizabeth, D. C.
- \*McCusker, Mary O., D. C.
- McDonald, Nellie Agnes, Ind.
- McFarland, William Norris, D. C.
- \*McGahay, John Emmet, D. C.
- McGarvey, Stella M., D. C.
- \*McGinley, Laurence William, N. J.
- †McKee, Edwin, Dinwiddie, D. C.
- †McKee, Louise Virginia, D. C.
- †McNeil, Mrs. Frances, D. C.
- MacDonald, Elizabeth, Md.
- Machen, Augusta Louise, D. C.
- †MacKay, William Gladstone, D. C.
- Madison, Lulu Walton, D. C.
- \*Maine, Estelle L., D. C.



- \*Malcolm, Edwina Rose, N. Y.  
 Malcolm, Eugenia Ross, Iowa  
 Manderschied, Clara, D. C.  
 \*Manning, Elizabeth Connor, Me.  
 Marr, Ethelyn Virginia, Va.  
 Marron, Mary Gertrude, D. C.  
 Marsteller, Bladen Lee, Va.  
 Martelino, Leopoldo C., P. I.  
 Martin, Lillian Blanche, D. C.  
 \*Martin, Mary R., Pa.  
 \*Martin, Thomas Finley, Va.  
   A. B., 1929, Davidson College  
 Maybee, Esma Retta, D. C.  
 Maxwell, Julia Anderson, Fla.  
 Melbourne, Margaret C., Md.  
 \*Mendell, Stewart A., Ohio  
 Menzel, Margaret Laura, D. C.  
 Mernst, Irene, D. C.  
 Miley, Ruth, D. C.  
 \*Millard, Homer B., Nev.  
 Miller, Bernice L., D. C.  
 \*Miller, Ellen W., D. C.  
 Miller, Florence, D. C.  
 Miller, H. C., N. J.  
 †Miller, John Edmund, Md.  
 Miller, John Melrose, Jr., Utah  
 Miller, Marion Margaret, D. C.  
 Miller, Norman Egbert, Md.  
 Milliken, Martha Agnes, Me.  
 \*Minor, Iva Gola, Mo.  
 Moncre, Jack Ashby, Va.  
   LL. B., 1926, George Washington University  
 Moncre, Robert Clarke, D. C.  
 Moore, Marie, Ohio  
 Moorehead, Phoebe, D. C.  
 \*Morgan, Joseph James, D. C.  
 Morgan, Stephen Edward, Ga.  
 Morishima, Goro, Japan  
   A. B., 1918, Tokio Imperial University  
   A. M., 1919, Tokio Imperial University  
 \*Morris, Sarah Sophia, D. C.  
 \*Morrow, Edwina Haskell, D. C.  
 \*Moskey, Frank R., D. C.  
   LL. B., 1924, Georgetown University  
   LL. M., 1925, Georgetown University  
 \*Mowatt, Ethel Eleanor, D. C.  
 \*Moyer, Robert Ashby, Va.  
 \*Mueller, Grace Antoinette, D. C.  
 Mulligan, Marguerite Maxwell, D. C.  
 \*Mullins, Edna Elizabeth, D. C.  
 Murphy, Mable Gant, Ind.  
   A. B., 1912, Butler College; A. M., 1923, George Washington University  
 Murphy, Margaret, D. C.  
 Murphy, M. Regina, D. C.  
 Musgrave, Mrs. Roth Lorimer, D. C.  
 †Mutehler, John Powell, D. C.  
 Nash, Charles Roy, D. C.  
 \*Nazzareno, Alfredo, D. C.  
 †Neal, Victor H., Tex.  
 †Neill, Emma Louise, D. C.  
 Nelson, Grace, D. C.  
 Nelson, William O., Md.  
 \*Newman, Goldie O., Mo.  
 \*Nicholas, Mrs. Cora M., Md.  
 \*Nichols, Charles Vernon, N. Y.  
 Nichols, Eva Eaton, D. C.  
 \*Nickas, Andrew, Ohio  
   LL. B., 1921, Ohio Northern University  
 \*Nieel, Mary Prudence, Va.  
 Niece, Helen Marguerite, Pa.  
   A. B., 1911, Grove City College  
 Niewonger, Lois, Ohio  
 \*Ohney, Alma Viola, Va.  
 \*Olcott, John Hedrick, Va.  
   B. S., 1923, Lehigh University  
 Oryan, John F., Ind.  
 Pakarow, William, N. Y.  
 †Palmer, Charles Mulford, Mass.  
   B. S., 1921, Tufts College  
 Parrish, Josephine Marie, D. C.  
 Paula, Sister Mary, D. C.  
 Penbody, Mauris Leroy, Mass.  
 Peck, Evelyn Frances, Va.  
 Pearson, Olga Agnetta, Ind.  
 Pendleton, Elizabeth Randolph, S. C.  
   A. B., 1922, Converse College  
 Peter, Jessie Elliot, D. C.  
 †Perry, Irene Valla, N. C.  
 Peters, Mae Ellinar, Ind.  
 Pfeiffer, Nellie, D. C.  
 Pielan, Mary Lizabeth, Pa.  
 †Phythian, Paul D., D. C.  
 Pirtle, Robert Edward L., Kans.  
 Pissani, Alphonse Virgil, D. C.  
 Pitcher, Margaret Emma, D. C.  
 †Pochos, Erich, Va.  
 Pollard, Rolla, Mont.  
 Porter, Clarence Henry, D. C.  
   B. S., 1925, Lehigh University  
 Powell, Edith Holle, D. C.  
   B. S., 1904, Rio Grande College  
   M. S., 1905, Rio Grande College  
 Powell, May Virginia, Md.  
 Power, Sylvia Myrtle, D. C.  
 Proctor, Louise Boardman, D. C.  
 Prigitsky, Joseph, N. Y.  
 Pullen, Dorothy Catherine, D. C.  
 Quaid, Francis DeSales Bernard, D. C.  
 Quinn, Elisabeth Mary, D. C.  
 Kalsam, Nellie Mae, D. C.  
 Rambo, Belle Hensels, Pa.  
 Ray, Ruth R., D. C.  
 †Raymond, William Frank, D. C.  
 Reed, Dorothy, D. C.  
 †Reed, Jennie R., Md.  
 Reed, Margaret Davis, D. C.  
   A. B., 1923, George Washington University  
 \*Reed, Spencer Harris, Pa.  
 Rees, Paul Taylor, D. C.  
 Reese, Katherine Meredith, Va.  
 Regardie, Jacob Theodore, England  
 Reynolds, Bertha Davis, D. C.  
 Resnik, Solomon, D. C.  
 †Rich, Ruth, Va.  
 Richards, Dorothea Wright, D. C.  
 †Rifkind, Hannah Saffin, D. C.  
   A. B., 1917, Goucher College  
 \*Rippey, Aaron Stanton, D. C.  
 †Rost, Anna Louisa, D. C.  
   A. B., 1921, George Washington University  
   A. M., 1925, George Washington University  
 †Roberts, Helen Gould, Va.  
 Robey, Charles Boyd, D. C.  
 Robin, Edith, D. C.  
 Robinson, Alice Evelyn, D. C.  
 Robinson, Anne R., D. C.  
 Rogers, Gretchen Louise, Germany  
 Rohrbach, Jesse Walter, Jr., D. C.  
 Rohrbach, Ota Hill, D. C.  
 \*Roeker, James Roy, D. C.

- Rosenthal, Henrietta Estelle, D. C.  
Ph. B., 1924, University of Chicago
- Rouse, Alberta Mary, Md.
- †Rowe, Effie Rebecca, D. C.
- Ruppert, Mary Clare, D. C.
- \*Russell, Olivia, Ga.  
A. B., 1920, Barnard College; A. M., 1923, Columbia University
- \*Russell, Robert Vernon, D. C.
- \*Rutan, Helen, Ill.
- Sample, Laurence Henderson, Pa.
- Sanders, George P., Minn.
- B. S., 1915, University of Minnesota;  
M. S., 1923, University of Minnesota
- Sautini, Maria Antoinette, Md.
- †Saul, Rose, D. C.
- \*Saum, Emily Eleanor, D. C.  
A. B., 1924, George Washington University
- †Schafer, Anna Josephine, Ga.
- Scharinger, Anna, Md.
- †Schneider, Eileen, Ind.
- Schnetzler, Bertha Elise, D. C.
- Schnoorberger, William, Va.
- Schoenbauer, C. K., Md.
- \*Schooley, Maud Braddock, D. C.
- \*Schroeder, Perry Shaw, D. C.
- Schulte, Theda E., Ohio
- \*Schweinhaus, Henry Albert, Md.  
LL. B., 1924, National University
- †Seammell, Annie Elizabeth, D. C.
- Scully, Charles Burleigh, Mass.
- Senior, Mildred Ruth, Kans.
- Serpas, Aelie B., La.
- Severance, Belknap, Md.
- \*Severance, Laura, D. C.
- Seymour, Hazel G., D. C.
- †Shamel, Clarence A., D. C.
- Shanley, Eleanor Louise, D. C.
- Shaw, Joseph Charles, D. C.
- Shaw, Lillian, D. C.
- \*Shaw, Margaret, D. C.
- †Shaw, Margaret B., N. Y.
- \*Shen, John Laurence, N. Y.  
B. S., 1926, Cornell University
- \*Shearer, Clarence, D. C.
- Shusta, Olive Amy, D. C.
- B. S., Ohio State, 1910; M. S., 1914, University of Wisconsin
- Shellhamer, Elsie Marian, D. C.
- \*Shelton, Mamie R., Va.
- \*Sherer, Burdette Barbara, Ohio
- Sharfy, Carrie Belle, D. C.
- Sheridan, William F., Va.
- \*Sherman, Mildred Sweeney, D. C.  
A. B., 1919, Oberlin College; M. S., 1924, George Washington University
- \*Shivers, Hazel P., Wis.
- Shook, Phoebe S., Va.
- Shorey, Melville B., D. C.
- \*Showalter, William Boyd, W. Va.
- \*Shreve, Edna Maria, D. C.
- Sieg, Mildred Catherine, Pa.
- †Shoon, Dorothy V. K., D. C.
- Simons, Mary Ellen, Tex.
- Simpson, Mary Kirk, D. C.  
A. B., 1923, Grove City College; A. M., 1930, George Washington University
- †Sitea, Mabel Kay, D. C.
- \*Skadding, Florence Margaret, D. C.
- Skadding, George Raymond, D. C.
- Slavens, Wylma Frances, D. C.  
B. P., 1913, Missouri State Teachers College
- \*Slenta, Laura Viola, Pa.
- †Smith, D. Quincy, D. C.
- Smith, Ernestine Iantha, W. Va.
- Smith, Ethel M., D. C.
- Smith, Isabelle, Ill.  
B. S., 1911, Valparaiso University
- Smith, Kathleen Teresa, D. C.
- \*Smoot, Julia Duvall, D. C.
- Snoody, Minerva A., Va.
- †Snow, Edna Sims, D. C.
- Snyder, Corinne Juliette, Ind.  
B. S., 1926, University of Cincinnati
- \*Snyder, Helen Frances, D. C.
- Sohn, Peter Wilfred, D. C.
- †Somerville, Mrs. Julia Chapin, D. C.
- Sowder, Anna L., Va.
- Spahr, Elsie Mildred, D. C.
- Spangler, Mrs. Arlene E., D. C.
- Spicer, Hazel L., D. C.
- \*Spitzer, Thelma Katharine, D. C.
- \*Sprosser, Elmer Leroy, Md.
- Stafford, Edward Thomas, D. C.
- Stancill, Anna C., D. C.
- \*Stannard, Anna C., N. Y.
- Starr, Kelda A., N. Y.
- \*Stejneger, Inga, D. C.
- †Stewart, Agnes H., D. C.
- \*Stewart, Charles Edward, D. C.
- \*Stewart, Dorothy Gilman, N. Y.  
A. B., 1915, Mt. Holyoke College
- †Stipek, Grace R., Mont.
- Stokor, Grace E., D. C.
- Stonik, Mary Louise, Pa.
- Stribbing, Mary, W. Va.
- Srinata, Estella, D. C.
- Strong, Kathryn Davis, Md.
- Sturms, Hugh Legare, Md.  
A. B., 1921, George Washington University
- \*Suarez, Edward, Mexico
- †Surasky, Lilly, S. C.  
A. B., 1923, Winthrop College; A. M., 1924, Winthrop College
- Swanton, John Reed, D. C.
- Sykes, Herman Arthur, D. C.
- Talley, Jacob Wallace, D. C.
- \*Tammara, Mohammed H., D. C.
- \*Tanaka, Ayako, Japan
- Taylor, Ruth Othelia, D. C.
- Teachout, Hattie Catherine, Mass.
- †Teel, Blanche Louise, D. C.
- \*Terry, Esther Tuttle, D. C.
- Terry, Maude Esther, Md.
- †Terry, Ora Alfrida, Mass.
- Thom, Mary Gordon, D. C.
- †Thomas, Adlowe, Va.
- Thomas, Bertha Frances, Va.
- \*Thomas, John Augustine, D. C.
- Thomason, Pauline, Ill.
- Thompson, Maude A., D. C.
- †Thoma, Julia Anne, N. C.
- Throckmorton, Olga E., D. C.
- Titus, Harry W., D. C.  
A. B., 1918, University of Wyoming; A. M., 1925, University of Wyoming
- †Towne, Jane, H., D. C.
- Trimble, Agnes, D. C.
- \*Trimble, William Ramsay, D. C.
- †Trisler, Hazel Iris, Ohio
- Turootte, Abela Gail, D. C.



- Turner, Alma Ort, D. C.  
 Turner, Mary Elizabeth, D. C.  
 Uhlig, Melaine Emily, Mass.  
 \*Umstead, Loretta Jane, Md.  
 \*Vail, Ruth Edna, Colo.  
 VanMeter, Mary G., D. C.  
 VanTyno, Ida A., D. C.  
 \*Varela, Adele, D. C.  
 \*Vernon, Dorothy, D. C.  
 Vesien, Harry Paul, D. C.  
 †Vickers, Evelyn, D. C.  
 Vincol, Dorothy, D. C.  
 Voorhies, Helen Elizabeth, N. Y.  
 †Vycital, John Rudolph, Ill.  
 †Wadden, Mrs. Annie, N. G.  
 \*Wade, Hope D., Iowa  
 \*Waldron, Mercedes Mary, D. C.  
   A. B., 1925, Marywood College  
 \*Walker, Robert, D. C.  
 \*Wall, Norman J., D. C.  
   A. B., 1922, University of Minnesota;  
   A. M., 1925, University of Minnesota  
 Walter, Karolyne Martha, D. C.  
 \*Walters, Leoda Mary, Md.  
 \*Walters, Marie Louise, D. C.  
 Walton, Edna Frances, D. C.  
 Ward, Ada C., D. C.  
 Warner, Anna P., D. C.  
 \*Warren, Earle L., D. C.  
 Warren, Rosina H., D. C.  
 \*Watson, Norman Edward, D. C.  
 Watt, Eleanor Louise, D. C.  
 Webster, Helen Potter, N. Y.  
 Webster, Louise Amelia, N. Y.  
 †Weckerly, Ida, Md.  
   A. B., 1926, George Washington  
   University  
 \*Weidner, Katherine Ann, D. C.  
 Weinstein, David Louis, D. C.  
 \*Weisel, Harriet Isabel, D. C.  
 †Welch, John Calvert, Pa.  
 †Welling, Cuyler, A., Md.  
 Welsh, Margaret H. Lowrey, Iowa  
 Wescott, James Blakely, D. C.  
 \*Wetherill, George Converse, D. C.  
 †Wheaton, Phila Lucille, N. Y.  
 \*Wheeler, Lulu Magdalene, Mont.  
 Whipple, M. Edith, Iowa  
 \*Whitman, Hannah Amelia, D. C.  
 White, Francis, D. C.  
 \*White, George Lawrence, D. C.  
 White, Jean K., D. C.  
 Whitehead, Louise, D. C.  
 Whitehead, Mary V. G., Va.  
 Widger, Clara Jeannette, Mass.  
 \*Wilcox, Allen, N. Y.  
 †Wilkins, O'Lee, Len, D. C.  
 †Willard, Clarke Livingston, Md.  
 Willey, Willard Haven, Utah  
 \*Willey, Alice, Utah  
 \*Willis, John Edwin, N. Y.  
 Willoughby, Grace Elizabeth, D. C.  
 \*Willoughby, Marion Frances, D. C.  
 †Williams, Robert Irwin, Md.  
 †Wilson, William, D. C.  
 Wingard, Hugh Donald, Pa.  
 Wingfield, Mary Elizabeth, D. C.  
 Winter, Ruth C., Pa.  
 \*Wise, Gertrude, W. Va.  
   A. B., 1923, Marietta College  
 Witharow, Grace A., Md.  
 †Witt, Helen J., Neb.  
 \*Wood, George Albert, Jr., Md.  
 Wood, Howard, D. C.  
   A. B., 1898, Harvard University  
 Wood, Jessie Ida, Calif.  
   A. B., 1915, Stanford University;  
   A. M., 1916, Stanford University  
 Woods, Linda McClure, D. C.  
 †Woodward, Constance, Va.  
 Woodward, Helen, D. C.  
   B. S., 1926, George Washington  
   University  
 Wymore, Ivy Jane Christina, Iowa  
   B. S., 1918, Drake University;  
   M. S., 1925, George Washington  
   University  
 \*Yochelson, Morris, D. C.  
 Young, Beulah Adams, Va.  
 \*Young, Harold M., Ala.  
   A. B., 1926, George Washington  
   University  
 Young, Ralph Fawe, D. C.  
 \*Zager, Max, D. C.

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- Albrecht, William Seth (E. E.), D. C.  
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 Andrews, Don Darrel (E. E.), D. C.  
 †Andrews, John Kenneth (M. E.), D. C.  
 Apter, Leonard (Chem. E.), Va.  
 \*Arosemena, Jose Alberto (C. E.),  
   Panama  
 Atkins, John Lewis (Chem. E.), D. C.  
 Atkinson, Herman Author (C. E.), Va.  
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 \*Ball, William Lloyd (C. E.), Va.  
 \*Banker, Russell L. (E. E.), D. C.  
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 †Barker, George A. (M. E.), N. Y.  
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 Beall, Richard Jones (Arch.), D. C.  
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 Betikofor, Wilfred Alvin (Chem.), D. C.  
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 Borden, Elbert Eugene (Arch.), D. C.  
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 Borlik, Edward Leo (Chem. E.), D. C.  
 Boudinot, Henry Meigs (C. E.), Okla.  
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   D. C.  
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   D. C.

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 Chang, Dominie Frank (Arch.), D. C.  
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 Caldwell, Albert Edward (E. E.), Md.  
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 \*Crauer, Baxter B. (E. E.), Md.  
 \*Crus, Amerleo (Arch.), Cuba  
 \*Curtiss, Robert Ross (M. E.), D. C.  
 Darby, Joseph Hale (Arch.), Md.  
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 \*Davis, Warren Harrison (C. E.), Kans.  
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 Fisher, Isaac Frances (M. E.), D. C.  
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 Forte, Matthew George (C. E.), N. Y.  
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 \*Goldstein, Isadore (C. E.), D. C.  
 Goodman, Louis (M. E.), D. C.  
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 Grand, John Louis (Arch.), D. C.  
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 Greenland, Bruce Ewart (C. E.), D. C.  
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 Guisasa, Pedro Baklumen, Jr. (E. E.), P. I.  
 Hagau, Norman Randolph (Arch.), Minn.  
 Hanes, Grayson Bland (C. E.), Va.  
 Haskell, Frank Beasley (Chem.), D. C.  
 Heagy, Daniel Webster (Chem.), D. C.  
 Hefty, Virginia (Chem.), Md.  
 Halvestine, Albert Harrison (E. E.), D. C.  
 Henderer, Edmond George (C. E.), D. C.  
 Hendricks, John Everett (E. E.), Calif.  
 †Hines, Frank Thomas (E. E.), D. C.  
 †Hirschorn, Harold L. (Arch.), N. Y.  
 Rodge, Ralph William (Arch.), D. C.  
 Howitt, George Joseph (E. E.), Va.  
 †Holland, Edgar (E. E.), D. C.  
 †Hoover, Warren H. (C. E.), D. C.  
 Horner, Charles Kenneth (Chem. E.), Va.  
 †Hosfield, Raymond F. (E. E.), D. C.  
 †Hough, Charles Larus (C. E.), Pa.  
 Howell, Frank Scott (C. E.), D. C.  
 Howlett, Jack (Arch.), D. C.  
 \*Hughes, John Rodgers (C. E.), Md.  
 \*Hutson, John Henry (C. E.), D. C.  
 Hutton, Alvin Campbell (E. E.), D. C.  
 Irwin, Robert Little (C. E.), Ala.  
 \*Jacobs, Edward Miner (E. E.), Va.  
 Johnson, James Lloyd (E. E.), Ohio  
 Johnson, Livingston Lee (E. E.), D. C.  
 Keller, John J. (E. E.), D. C.  
 Kelley, Dennis S. (C. E.), Va.  
 \*Kerr, Alex Floyd (E. E.), D. C.  
 \*Kerwin, Charles Henry (Chem. E.), N. Y.  
 King, Harvey W. (M. E.), D. C.  
 King, Henry Edward, Jr. (Arch.), D. C.  
 †Knapp, David Goodwin (Physics), Ind.  
 †Kussek, Paul Daniel (Chem.), D. C.  
 \*Lehman, Walter Sherwood (C. E.), D. C.  
 LeMerle, Eugenie (Arch.), D. C.  
 †Leonard, Frederic Buchanan (E. E.), Md.  
 Levy, Daniel Morton (Arch.), D. C.  
 Lightfoot, Charles Eastman (Chem.), Va.  
 Lookwood, Daniel Hammond (E. E.), D. C.  
 Lokerson, John Thornton (C. E.), D. C.  
 Lombard, Rollin Edward (M. E.), D. C.  
 \*Lowry, Alvin Lancaster (Chem. E.), D. C.  
 Ludlow, Louis Leon (M. E.), D. C.  
 \*Ludwig, Ralph V. (Chem. E.), Ohio  
 Lyle, Firman P. (E. E.), D. C.  
 Lyon, Sidney Bennett (M. E.), D. C.  
 McCoy, Ellis Edwin, Jr. (Chem.), Md.  
 McCullough, Roydon Keyser (Arch.), Utah  
 McDaniel, Bonnie Ruth (Chem.), Ky.  
 McGhan, Fred Wagner (C. E.), D. C.  
 McHugh, James Morris (Arch.), Va.  
 McPeak, William Wallace (C. E.), D. C.  
 McPherson, Albert Eugene (Chem.), D. C.  
 McQueen, Thomas Warren (C. E.), D. C.  
 McWhorter, Julian Howard (E. E.), D. C.  
 MacKnight, Harold Egbert (M. E.), N. Y.  
 Mager, Edwin E. (M. E.), D. C.  
 Maguire, Bernard J. (C. E.), Ma.  
 †Markham, John Gilbert (C. E.), D. C.  
 †Marti, Herbert Frederick (Arch.), D. C.  
 Mason, Martin Alexander (E. E.), Va.  
 Matthews, Shaw Hall (Arch.), Ga.  
 \*Meyer, Edwin Godwin (E. E.), D. C.  
 †\*Miller, Carey Dillon (E. E.), Ill.  
 Miano, Alfred Hamilton (Arch.), D. C.  
 Morles, Louis Elizabeth (E. E.), D. C.  
 †Morris, Lynn (C. E.), Utah  
 Moseley, Francis Loring (E. E.), D. C.  
 Murphy, Gale (M. E.), D. C.  
 Nelson, Melville Cary (E. E.), N. C.  
 \*Nicholson, James Brawner (M. E.), Md.  
 Nowell, George Henry (Arch.), D. C.  
 \*O'Connor, John Francis (M. E.), D. C.  
 †O'Halloran, Thomas Stuart (C. E.), Va.  
 \*Ormsby, Edmund (E. E.), D. C.  
 Perry, Paul Furman (E. E.), D. C.  
 Peising, Edwin Rudolph (E. E.), D. C.  
 \*Phelps, Albert McClure (C. E.), D. C.  
 †Phelps, Robert Everett (M. E.), Md.  
 †Phillips, Stanley Welden (M. E.), D. C.  
 \*Pistara, Felix Martin (C. E.), P. I.  
 \*Portch, Joseph Harry (M. E.), D. C.



- †Purchase, Albert Richard (C. E.), D. C.  
 \*Quinn, Hugh Francis (M. E.), D. C.  
 Radue, Richard Glover (M. E.), D. C.  
 \*Ragsdale, William Hudson (M. E.), Md.  
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 \*Read, Joseph Calhoun (C. E.), D. C.  
 Ready, Daniel (Chem. E.), Md.  
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 Remley, Ralph Day (Chem.), D. C.  
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 Riordan, Edward John (Arch.), D. C.  
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 B. S., 1924, Case School of Applied Science  
 \*Hahn, Edwin, D. C.  
 Hansen, George Robert, Wis.  
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 B. S., 1922, Whitman College  
 Harder, Robert G. W., D. C.  
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 M. E., 1924, Cornell University  
 Johnson, Roger C., Mo.  
 Klein, Henry James, D. C.  
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 Muir, Henry K., D. C.  
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 Thompson, Chris, Wis.  
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 Hester, Swannie Lee, Md.  
 Higgins, Lucy D., D. C.  
 \*Houser, Lois Elizabeth, D. C.  
 Hull, George Russell, Md.  
 Jaquette, Marie Louise, D. C.  
 †Johnston, Marian B., Va.  
 Jones, Ola C., D. C.  
 Karmany, Edward Lincoln, Pa.  
 Keith, Mary Mildred, D. C.  
 Kessler, Eva F., D. C.  
 Kirk, Ruth Louise, Va.  
 Knapp, Margaret E., D. C.  
 Kruell, Marie Elsie, D. C.  
 Kupfer, Julia Adele, D. C.  
 Kushner, Irene C., D. C.  
 Kuykendall, Nancy Blue, W. Va.  
 †Larkin, Lillian Jane, D. C.  
 Lasica, Sophronia J., Ky.  
 \*Latterner, Dorothy Stone, Md.  
 Lee, Laura Canfield, D. C.

Lout, Jean MacFarland, Md.  
 McKeever, Margaret Virginia, D. C.  
 \*McLain, Gertrude L., D. C.  
 Machmer, John Henry, Pa.  
 Macina, Mary Lucia, D. C.  
 \*MacNeil, Winifred Agnes, D. C.  
 †Mangum, Clara Bell, Ohio  
 Marshall, Miriam Ivy, D. C.  
 Mason, Chlorus K., D. C.  
 Mattingly, Mary Alice, D. C.  
 Meira, Lois Howell, D. C.  
 Miles, Elizabeth Webb, D. C.  
 \*Monroe, Mildred J., Va.  
 \*Morgan, Mary Edna, D. C.  
 Morris, Hilma Maria, Md.  
 Morton, Amele DeCall, D. C.  
 †Moyer, Lida Roberts, D. C.  
 Murray, Margaret, D. C.  
 Norman, Nettie, D. C.  
 Oekershausen, Carla Henrietta, D. C.  
 Oekershausen, Marie Fredericks, D. C.  
 \*Painter, Fern Henrietta, D. C.  
 Payne, Willie May, Va.  
 Philpitt, Blanche Willis, D. C.  
 Price, Adele Spence, D. C.  
 Proal, Beatrice Frances, Mass.  
 Ranow, Pearl Kleckner, D. C.  
 Reed, Edward D., D. C.  
 Ruby, Mary Helena, D. C.  
 Sanderson, Lennie Roberts, D. C.  
 Saunders, Arbutus R., Conn.  
 Schmidt, Martha Rowlett, D. C.  
 Schneider, Katherine Elizabeth, D. C.  
 Schwarz, Felix Conrad, N. Y.  
 \*Shapiro, Rebecca Porton, D. C.  
 Shaw, Roselia Beatrice, D. C.  
 †Sims, Lottie May, D. C.  
 Smith, Lillian Eva, Ohio  
 \*Smith, Donna Mae, D. C.  
 Steele, Eva Belle, Va.  
 Stewart, Margaret Bell, D. C.  
 Sullivan, Nana F., D. C.  
 Tatum, Margaret, S. C.  
 †Taylor, Alexander N., Va.  
 Teepe, Elizabeth Ada, D. C.  
 †Thompson, Claudia, D. C.  
 Tomlin, Pauline, D. C.  
 \*Towson, Helen, D. C.  
 Wanstall, Grace, D. C.  
 Ward, Louise Markley, D. C.  
 Wescott, Mary Anne, Va.  
 †Whitley, Helen A., N. J.  
 William, Mary Evelyn, Md.  
 \*Wendrack, Walter John, D. C.  
 Woodrow, Doris Evelyn, D. C.

## JUNIORS

Abramson, Margaret, Va.  
 Aitchison, Mary Caroline, Va.  
 \*Aldridge, Beulah Price, D. C.  
 Alexander, Georgia L., Mo.  
 †Allen, Cornelia Morgan, D. C.  
 Appich, Eleanor Lindsey, D. C.  
 Austin, Violet K., Md.  
 Baker, Eva, D. C.  
 Ballinger, Lulu Emma, D. C.  
 Barnes, Beulah Shull, Calif.  
 \*Barnes, Ruth Ellen, D. C.  
 Baynes, Wert Tennis, Ala.  
 Beller, Mary Adelaide, D. C.  
 Bergin, Katherine Elizabeth, D. C.  
 Bigos, Mary Magdalene, Pa.

†Bushler, Edna Bell, Mo.  
 Burk, Margaret Melissa, D. C.  
 \*Burrows, Edna Gertrude, D. C.  
 Byler, Emma Shumway, D. C.  
 Cage, Ora E., Calif.  
 Carden, Mary Stuart, D. C.  
 Carle, Marian Larner, D. C.  
 Carney, Ethel Lamb, D. C.  
 Carroll, Zeta V., Pa.  
 \*Castleman, Virginia C., Va.  
 Caushey, Sadie, D. C.  
 Chamberlin, Kathryn, D. C.  
 Chappell, Lillian Mollie, D. C.  
 Church, Clara M., D. C.  
 \*Clark, Isabell, D. C.

- Clarkson, Gladys Marion, D. C.  
 Coates, Lyla Mildred, D. C.  
 \*Cogovan, Rosemary Florence, N. Y.  
 Cohen, Jennie Harriet, D. C.  
 Cooper, Harold H., D. C.  
 Cornell, Florence Newell, D. C.  
 Corner, Charlotte Troughton, Va.  
 Curl, Grace Irene, D. C.  
 †Davis, Jessie May, Ark.  
 Davis, Lucy Mildred, Va.  
 Davis, Ruth Elizabeth, D. C.  
 \*Davison, Ruth, D. C.  
 Day, Ruth Esther, Ohio  
 \*Denison, Harriet Alberta, D. C.  
 Donahue, Mary Helena, D. C.  
 \*DuMes, Mary Fields, Md.  
 †Duncan, Louise Legarde, Miss.  
 †Earnest, Mildred, D. C.  
 Ewer, Maides, Calif.  
 Finckel, Elinor Keller, D. C.  
 Finnio, Frances Ruth, D. C.  
 Fisher, Elizabeth Crosby, D. C.  
 Foster, Grace T., Md.  
 Frits, Florence Ruth, D. C.  
 George, Marion, Pa.  
 \*Getty, Mildred Newbold, Md.  
 Gilchrist, Estelle Marguerite, D. C.  
 Goodloe, Agnes Hoge, D. C.  
 Green, Mildred, D. C.  
 Gregg, Emma Gibson, D. C.  
 Hanft, Ella A., D. C.  
 Harper, Helen Virginia, D. C.  
 Harris, Freeda Lucille, D. C.  
 Haycock, Bernardine Janney, D. C.  
 \*Hassell, Audrey Veronica, D. C.  
 Hicks, Pearl, Fla.  
 Holden, Ruth, Tenn.  
 Hopkins, Josephine, D. C.  
 †Howard, F. Inez, Kans.  
 Howard, Josephine T., Va.  
 \*Hughes, Harvey Robinson, Md.  
 Hughes, Mary Estelle, Ga.  
 \*Hunt, Lucy Jones, D. C.  
 Israel, Winifred Boyce, D. C.  
 Jackson, Jean V., D. C.  
 Jewell, Edgar Guy, Md.  
 Johnson, Laakey, D. C.  
 Johnson, Mrs. Laakey W., D. C.  
 Jones, Virginia Margaret, D. C.  
 Jordan, Isabel Louise, D. C.  
 †Keliher, Alice V., Md.  
 Kemball, Dorothy J., D. C.  
 Kennedy, Mabel Louise, Va.  
 \*Klavans, Ethel, D. C.  
 Lackey, Mary, D. C.  
 \*Lee, Lella, D. C.  
 \*Lefler, Helen Frances, D. C.  
 Lewis, Nancy Ellyson, Va.  
 Little, Helen Rose, W. Va.  
 Little, Ruth Elizabeth, D. C.  
 Lloyd, Annabelle Diantha, Md.  
 Lockwood, Margaret Mary, D. C.  
 \*Loyd, Elizabeth Gregg, Va.  
 Lusby, Viola Berger, D. C.  
 McAuliffe, Eleanor P., D. C.  
 McCauley, Alice Olivia, D. C.  
 \*McClelland, Anna Laura, D. C.  
 \*Macomber, Virginia, D. C.  
 Maguire, Arthur Aloysius, Pa.  
 Maloney, Emma Jane, D. C.  
 \*Mann, Clara Margaret, D. C.  
 Masson, Helen Burd, D. C.  
 Masson, Mary G., D. C.  
 Miller, Nina, D. C.  
 Morris, Laura, D. C.  
 \*Morrison, Laura Estelle, D. C.  
 \*Moss, Emilie Nison, D. C.  
 Moyer, Ada L., Ohio  
 Nance, Nellie Ward, Va.  
 Nichols, Mildred Jenny, D. C.  
 \*Noack, Fannie R., D. C.  
 Onwaka, Mary Louise, D. C.  
 O'Neal, Mary Catherine, D. C.  
 \*Parker, Vera R., Md.  
 Parton, Virginia M., D. C.  
 Parris, Bertha, Ind.  
 Payne, Nellie Angeline, Va.  
 Percy, Mildred St. Martin, D. C.  
 Ramey, Elizabeth Margaret, Va.  
 Ramsey, Olive Elizabeth, D. C.  
 Rish, Mary Sherman, D. C.  
 Reynolds, Anna Louise, Ga.  
 Richwine, Margaret Helen, Va.  
 \*Roseney, Catherine Marie, D. C.  
 Rowe, Ellen M., N. C.  
 Schmitt, Regina Marie, D. C.  
 Schwarz, Raphaela Ethlyn, D. C.  
 Scrivener, Katherine Faber, D. C.  
 Shands, Mary Elizabeth, D. C.  
 Showmaker, Roberta, D. C.  
 \*Smith, Dorothy Millicent, D. C.  
 Smith, Gladys G., D. C.  
 Souder, Laura, Md.  
 Staniford, Margaret Wilson, D. C.  
 Stebbins, Daphne LaZella, Md.  
 Stokes, Jean C., D. C.  
 Streett, Margaret, D. C.  
 Suter, Thruza E., D. C.  
 Thissell, Mildred Frances, Mass.  
 \*Tighe, Florence Mary, D. C.  
 Vaughan, Clara Blanche, Va.  
 Veithmeyer, Louise, D. C.  
 Waldron, Callie S., D. C.  
 Wedgworth, May, Md.  
 Wells, Chloe Elizabeth, Va.  
 \*Werner, Myrtle Virginia, D. C.  
 Wild, Estelle P., D. C.  
 Wildman, Elsie Pauline, D. C.  
 Wood, Bonnie Taylor, D. C.  
 \*Woodward, Esther Rittenhouse, D. C.  
 Woodward, Una, D. C.

## SENIORS

- Alber, Madeleine M. J., Ind.  
 Allison, Adele Lily, D. C.  
 Arontrout, Elizabeth Sites, D. C.  
 Baldwin, Carrie Belle, Tex.  
 Bruckett, Bonnie May, Me.  
 Brooks, Abbie Ballard, Va.  
 Rush, Grace, D. C.  
 Chambers, Miriam Palmer, Md.  
 Currell, Edward M., D. C.  
 Didden, Marie Wilhelmine, D. C.  
 Edinburg, Florence P., Mich.  
 Epstein, Dora G., D. C.  
 Ewers, Alys Helen, D. C.  
 Garrels, Agnes F., D. C.  
 Hastings, Marie, Md.  
 Hessler, Agnes Bertha, D. C.  
 Hill, Mary Temple, Va.  
 Kale, Norma Josephine, England  
 Kennedy, Willie Maude, Tex.  
 Lerch, Sara R., Pa.



\*Lewis, Eva Anita, D. C.  
 Lewis, Maud, Ind.  
 \*Lind, Alma Grace, Iowa  
 Lohmann, Elsa, D. C.  
 Luers, Edna May, Md.  
 McCauley, Irma Gertrude, D. C.  
 McKenna, Laura Emma, N. H.  
 McNamara, Rosemary, D. C.  
 Martin, Gladys Andrews, D. C.  
 Masterson, Elizabeth, D. C.  
 Matthews, Merla Glenn, Md.  
 \*Miller, Ella, D. C.  
 Miller, Mary Agnes, D. C.  
 Moore, Myrtle E., Tex.  
 Mothershead, Marjorie Winifred, D. C.  
 Murphy, Irene, Md.  
 \*Neal, Martha Hamilton, Fla.

O'Neil, Mary Elizabeth, Conn.  
 \*Roberts, Clyde, Miss.  
 \*Rouse, Mary Rosella, D. C.  
 Ruth, Catherine Rose, D. C.  
 Schwartz, Margaret Anna, D. C.  
 Shesemaker, Mary Katherine, D. C.  
 Shuey, Elva Town, D. C.  
 Smith, Ruth Lillian, D. C.  
 Stam, Lillian Roberts, D. C.  
 \*Taliaferro, Julia Crawford, Va.  
 Venning, Gladys, Md.  
 Walker, Frances Estelle, D. C.  
 Wallace, Florence Catherine, D. C.  
 Williams, Winifred May, Pa.  
 Wilson, Agnes Wallace, Ind.  
 Wright, Elsie Star, Va.  
 Young, Grace Victoria, D. C.

## UNCLASSIFIED

†Adams, Selden Carlyle, D. C.  
 \*Buckler, Edythe A., D. C.  
 \*Burhanee, Alice, N. Y.  
 Burrell, Veta Mae, Ga.  
 †Carpenter, Margaret Ellen, D. C.  
 \*Carpenter, Zella Norman, D. C.  
 †Chamberlin, Elsie E., D. C.  
 Conn, Miriam, Md.  
 Craighill, Dorothy, N. C.  
 Diller, Hilda Marie, D. C.  
 Drewry, Elizabeth Belle, D. C.  
 Dyson, Doris Jeanette, D. C.  
 Edwards, Ruth Ward, D. C.  
 \*Evans, Phillis, D. C.  
 †Gerstin, Lucille, D. C.  
 Gibson, Mary Snyder, D. C.  
 Gilbert, Dorothy, Va.  
 Goldiner, Dora Lincoln, D. C.  
 Groover, Marion Irvine, Ga.  
 †Hendibee, Bernadine, D. C.  
 Hopkins, Abby Elizabeth, D. C.  
 \*Hughes, Kathryn Frances, D. C.  
 †Kirk, Katherine Emma, D. C.  
 \*McCormick, Maude B., Md.  
 \*McDermot, Elizabeth W., D. C.  
 \*McNamara, Elizabeth M., D. C.

\*Makover, Estelle Helene, D. C.  
 †Michaud, Edith Mary, D. C.  
 \*Miller, Alice Vivian, D. C.  
 Morris, Sara Roberta, Va.  
 \*Naylor, Ruth, D. C.  
 Pincombe, Caroline Louise, Mass.  
 Richmond, Hilda Wright, D. C.  
 Rosenthal, Gertrude Bernice, D. C.  
 Rosett, Ruth, D. C.  
 Schaefer, Anna Florence, Va.  
 Smith, Gertrude B., Va.  
 Smith, Mary Elizabeth, Va.  
 †Snyder, Alice Pauline, D. C.  
 Spinden, Jeanette, Md.  
 Spence, Vena M., D. C.  
 †Sterne, Margaret, Utah  
 Sturatt, Clara May, Utah  
 \*Tettert, Catherine Virginia, D. C.  
 Thompson, Anna Savilla, D. C.  
 \*Tripp, Dorothy Leonora, D. C.  
 Walemith, Retta Esther, D. C.  
 †Whaley, Mildred Cecile, D. C.  
 \*Williams, Ada May, Md.  
 \*Wineberger, Ruth Aldridge, D. C.  
 \*Wood, Helen Louise, D. C.

## SPECIAL STUDENTS

\*Albright, M. Louise, D. C.  
 \*Athey, Edith B., D. C.  
 \*Austin, Miriam Jones, D. C.  
 \*Barnard, Caroline Fanning, D. C.  
 \*Barstow, Marybelle Myles, D. C.  
 \*Basim, Florence Lucille, D. C.  
 \*Bennett, Lillian Allen, Md.  
 \*Blandford, Anna S., Md.  
     A. B., 1906, Western Maryland  
     College  
 Roblitz, Grace, D. C.  
 \*Bond, Mary E., D. C.  
 \*Brady, Katherine Dorothea, D. C.  
 \*Brinkley, Marie Louise, D. C.  
 \*Burlingame, Annie Elizabeth, D. C.  
 \*Campbell, Anna, N. J.  
 †Carmichael, Bess H., D. C.  
 \*Casey, Helen Stokes, D. C.  
 Chatelain, Alice Bertha, D. C.  
 Church, Edith M., Va.  
 \*Crump, Edna Land, D. C.  
 †Crumpton, Anna R., D. C.  
 Curtiss, Charles L., Jr., Ohio

Dagnall, Bertha Isabelle, Conn.  
 \*Dallas, Mary Campbell, D. C.  
 Daniels, Margaret Elizabeth, N. J.  
 Davidson, Myrtle, Md.  
 †Dickey, Gladys S., D. C.  
 \*Draney, Mary Elizabeth, D. C.  
 \*Dyer, Evelyn Virginia, Va.  
 \*Edgett, Kathleen Jane, Va.  
 \*Elberry, E. Lyle, N. Dak.  
 \*Farmer, Iver, Va.  
 \*Farnsworth, Eunice Louise, D. C.  
 \*Field, Alice Butler, D. C.  
 \*Folmer, Henry M., D. C.  
 Folse, Leonard Roy, La.  
     A. B., 1924, George Washington  
     University; A. M., 1926, George  
     Washington University  
 \*Frause, Louise B., D. C.  
 \*Freedman, Grace Rice, D. C.  
 \*Gardner, Emma Almeda, D. C.  
 \*Getty, Annie Graham, D. C.  
     A. B., 1923, George Washington  
     University

- Gibbs, Kate Maria, Mass.  
A. B., 1919, George Washington University
- \*Glascock, Fannie Ella, D. C.  
Gore, M. Florence, D. C.  
\*Graff, Marie Christine, D. C.  
\*Graves, Dorothy Eaton, Va.  
Gregory, Agnes Josephine, D. C.  
A. B., 1923, George Washington University
- Haskins, Anne Meade, Va.  
\*Hecox, Geneva Johnston, Va.  
Hickerson, Rachel, Md.  
\*Hilder, Janie Frost, D. C.  
\*Holland, Sarah Blair, D. C.  
\*Houston, Flora K., D. C.  
Hughes, Anna S., D. C.  
\*Jackson, Dudley Chase, Md.  
\*Johnston, Flora A., D. C.  
Jurkevich, Clara Allen, D. C.  
A. B., 1923, George Washington University
- \*Keiser, Grace Schneider, D. C.  
\*Keliher, Annie Cecelia, D. C.  
Kent, Ellen Sydney, D. C.  
\*King, Elizabeth Winsor, Va.  
\*Knighton, Helen Margaret, D. C.  
†Knox, Lucy, Fla.  
B. S., 1924, University of Maryland
- \*Leone, Mary Hannah, D. C.  
†LeFever, Rose Lillian, D. C.  
Lindsay, Meta R., D. C.  
\*Lavi, Helen F., D. C.  
\*Lyridiana, Florence Spencer, D. C.  
\*McKay, Alice C., D. C.  
\*McLaurin, Grace, D. C.  
\*Mangum, Susie Alice, D. C.  
\*Mason, Lillian Beatrice, D. C.  
\*Michalsen, Elsie Elanore, D. C.  
Miller, Cintha Jewell, Mo.  
\*Miller, Natta Gallagher, D. C.  
\*Mooney, Agnes T., D. C.  
\*Murphy, Alice Elizabeth, D. C.  
\*Murphy, Anna Belle, D. C.  
\*O'Donnell, Anne Frances, Mass.  
\*Orme, Edith Orsello, D. C.  
\*Otterback, Sara G., D. C.  
†\*Padgett, Madeline Anna, D. C.  
\*Paris, Lena Becker, D. C.  
†Parker, Ruth Barnard, D. C.  
A. B., 1925, George Washington University
- \*Pimper, Cora H., D. C.  
\*Pitkin, Jane Nadey, Va.  
†Plotnick, Rose Henrietta, D. C.  
\*Pollock, Theresa Carroll, D. C.
- Preston, Phoebe Darlington, Md.  
Price, Gladys Irene, D. C.  
†Purdell, Phyllis, Md.  
Rosa, F. Marvin, D. C.  
\*Reynolds, Manila, Tex.  
B. C. S., 1926, Washington College of Accountancy
- \*Richards, Ivah, D. C.  
†Rogers, Rebecca Martha, D. C.  
\*Rouse, Sara P., Va.  
\*Russell, Doris Swan, D. C.  
†Schiller, Mildred, D. C.  
Sechoch, Edith Mae, Md.  
\*Schwartz, Sylvia Teresa, D. C.  
Schwartz, Annie J., D. C.  
\*Seale, Juliet MacCall, D. C.  
Short, Margaret M., D. C.  
\*Smith, Eleanor Louise, Md.  
\*Snyder, Kathryn Shale, D. C.  
Springman, Helen B. Duvall, Va.  
\*Steinberg, Flora Gertrude, D. C.  
\*Steinle, Marie Katherine, Md.  
\*Stephenson, Mary Adeline, D. C.  
\*Sutton, Blanche, D. C.  
\*Summy, Ethel L., D. C.  
A. B., 1918, George Washington University; A. M., 1920, George Washington University
- \*Tarr, Mollie Walton, Md.  
†Tavener, Maria, D. C.  
\*Taylor, Martha Elmore, D. C.  
A. B., 1926, George Washington University
- \*Thaden, Lydia Hodgson, D. C.  
\*Thurston, Evangeline, Mo.  
A. B., 1926, George Washington University
- Torbert, Janet Whitcomb, D. C.  
\*Turner, Marie Agnes, D. C.  
A. B., 1925, George Washington University
- Umhan, Katherine S., D. C.  
\*Vallette, Estelle M., D. C.  
†\*Wadley, Elizabeth Virginia, D. C.  
†\*Wadley, Estelle Louise, D. C.  
†Waldron, Agatha Thomas, D. C.  
\*Walker, Alberta, D. C.  
A. B., 1914, George Washington University; A. M., 1925, George Washington University
- \*Walther, Florine Walker, D. C.  
Weedon, Caroline Elizabeth, D. C.  
\*West, Daisy Hinton, D. C.  
\*White, Annie Duvall, Md.  
\*Whitehead, Edmonia Powers, Va.  
\*Young, Mary Seward, Va.

## SUMMER SCHOOL 1926

- Abrams, Kenneth W., D. C.  
Ackert, Mary S., N. Y.  
Acunia, Emiliano T., P. I.  
Adams, William Ware, D. C.  
Adkins, Edna M., D. C.  
Aitchison, Mary C., Va.  
Alber, Madeline M., Ind.  
Albrecht, William S., N. Y.  
Albus, Paul C., Pa.  
Alexander, Maxie M., D. C.  
A. B., 1922, George Washington University
- Alexander, Ruth, D. C.  
Allier, Harry Clifford, D. C.
- Allen, John B., D. C.  
Allen, Lena, D. C.  
Allen, Raymond E., Ohio  
Alley, Marion Smith, Mo.  
Allwine, Elsie May, D. C.  
Amsterdam, Herman J., N. Y.  
Anderson, Christie J., Mo.  
Anderson, Grace E., Idaho  
Anderson, Gunhild, Pa.  
Anderson, Norman T., Ill.  
Anderson, Ruth V., D. C.  
Anthony, Cora, Ga.  
April, Ella, N. J.  
April, Israel, D. C.



- April, Pearl, D. C.  
 Arellano, Arsenio, P. I.  
 Arnold, Jessie Scott, D. C.  
 Aronoff, Julius, D. C.  
 Aronowsky, Colia, Mont.  
 Arrowsmith, Jean, Pa.  
 Atherton, Jack G., D. C.  
 Austin, Violet K., Md.  
 Baber, Leonard C., D. C.  
 Baer, Mrs. Mary Arnold, D. C.  
 Bailey, Confer G., D. C.  
 Baker, Alida A., Mass.  
 \*Baker, Arthur G., D. C.  
 Baker, Ruth S., N. Dak.  
 Ball, Alice Arline, D. C.  
 Ball, Carolyn S., D. C.  
 \*Ball, Cecil R., Va.  
 Ballinger, Lou E., D. C.  
 Bardsley, Helen F., Pa.  
 Barnes, Frances W., D. C.  
 Barnes, Robert L., N. Y.  
 Barnett, John Hart, Md.  
 Barrett, Cora K., D. C.  
 Barriek, Mary Elizabeth, D. C.  
 Barry, James M., D. C.  
 Barton, Elaine, D. C.  
 Bateman, Roy D., D. C.  
 Bates, George N., D. C.  
 Bauer, George M., Pa.  
 Baum, Evelyn, D. C.  
 Bawell, Ruth A., D. C.  
 Bayle, Samuel B., Md.  
 Beach, Arthur E., D. C.  
 Beaver, Anna Fay, D. C.  
 Benver, Garth L., Pa.  
 Beck, Marjorie S., Md.  
 Becker, Rose E., Ind.  
 Beckert, George E., D. C.  
 Beede, Kenneth C., N. H.  
 Bein, Katie, D. C.  
 Bell, Mrs. Frances Cooley, Va.  
 Bell, Helen E., Mo.  
 Bell, Philip F., D. C.  
 Beller, Jack, Calif.  
 Beller, Leona Marie, Wis.  
 Belman, Abraham, Conn.  
 Bendheim, Leroy, Va.  
 Benfer, James P., Jr., D. C.  
 \*Bercaw, Emily H., D. C.  
 Berg, Jake, D. C.  
 Berger, Cliff Palsgrove, Pa.  
 B. S., 1924, Franklin and Marshall  
 Bergin, Edward P., Conn.  
 Bergin, Katherine E., D. C.  
 Berry, Mrs. Elizabeth, D. C.  
 Betikofor, Wilfred A., D. C.  
 Bettelheim, Edwin S. Jr., D. C.  
 A. B., 1926, George Washington  
 University  
 Betts, Jeannette, Del.  
 Bickford, John H., Md.  
 Bickford, Mildred Fay, D. C.  
 Blehl, Frankie, Ky.  
 Bigelow, William W., Ill.  
 Bigsine, William Joseph, D. C.  
 Biggs, Mary M., Pa.  
 Bitner, Mark H., Md.  
 Bitman, Samuel, D. C.  
 Blackstone, Virginia, D. C.  
 Blanks, Carolyn, D. C.  
 Blazrock, Verotica, N. Y.  
 Bloom, William K., D. C.  
 Bogman, James H. B., D. C.  
 Boland, Floran J., Pa.  
 Bolton, Robert M., D. C.  
 Bosher, Ivan C., Ill.  
 Booth, Nina, N. Y.  
 Booth, Mrs. Rebecca A., D. C.  
 Bort, Ned Alfred, Va.  
 Bordon, Hazel A., Mass.  
 A. B., 1926, George Washington  
 University  
 Barges, Clara Louise, D. C.  
 Borow, Henry, Pa.  
 Bougie, James A., Pa.  
 Bowman, Joseph M., Va.  
 Bowman, Kimberly, Md.  
 Boyd, John Sparrow, D. C.  
 Boyd, Naomi May, D. C.  
 Brackett, Hattie May, Me.  
 Bradford, Thomas A. Jr., D. C.  
 Bradford, William, Pa.  
 \*Brady, Maurice K., Conn.  
 \*Brady, Parke H., D. C.  
 Bragg, Henry Peyton, D. C.  
 Bradshaw, Mildred M., D. C.  
 Bray, Alice Kathleen, Ill.  
 A. B., 1922, Illinois College  
 Brinson, Roscoe, Md.  
 A. B., 1913, Texas Christian  
 University  
 Bromley, Burt, Md.  
 Bronaugh, Frank H., D. C.  
 Brooks, Walter Carroll, D. C.  
 Brown, Anita Belle, D. C.  
 Brown, Carey Wilson, N. C.  
 \*Brown, Dewey L., Ky.  
 Brown, James K., D. C.  
 Brown, Josephine P., N. Y.  
 Brown, Robert T., D. C.  
 Brown, Vernon Lee, D. C.  
 Brumbaugh, Elliot F., Pa.  
 Brunschwig, Lily, Switzerland  
 Bryan, Anna Sara, Mo.  
 Bryan, William D., D. C.  
 \*Bryant, Robert M. Jr., Va.  
 Buchalter, Helen, D. C.  
 Buchsteiner, Margaret, D. C.  
 Bucia, Simplicio, P. I.  
 Buckman, Bertha, Va.  
 Buchholz, Emma, Iowa  
 Bundick, Harriet, D. C.  
 A. B., 1926, George Washington  
 University  
 Burgess, Mrs. Elizabeth, Iowa  
 Rurilingame, Annie E., D. C.  
 Burns, Dorothy J., D. C.  
 Burt, Gertrude E., N. Y.  
 Bush, Grace, D. C.  
 Byer, Maurice Y., N. J.  
 Caballero, Jose Capo, D. C.  
 Cage, Ora E., Calif.  
 Callahan, Claude M., Ind.  
 Callahan, Dolly M., Va.  
 A. B., 1919, George Washington  
 University; A. M., 1921, George  
 Washington University  
 Campbell, George K., Ill.  
 \*Castrell, Mrs. Cecil W., Tex.  
 A. B., 1921, George Washington  
 University  
 Cantrell, Georgia Edith, Colo.  
 Carden, Mrs. Mary Stuart, D. C.  
 Carden, Samuel P., D. C.  
 Cardwell, Frank F., Va.  
 Carmick, Louis G., Jr., D. C.

- Carnes, Mrs. Grace B., D. C.  
A. B., 1908, George Washington University
- Carrico, Charles A., D. C.
- Carter, Elizabeth, Tex.
- Cartwright, Joseph L., Jr., Mo.
- Casa, Billie, Va.
- Caughy, Sadie, D. C.
- Cavanagh, John Richard, D. C.
- Chace, Mary Louise, N. Y.
- Chadwick, George, N. J.
- Chambers, Miriam P., Md.
- \*Chaney, Mrs. Bertha Shanks, D. C.
- Chang, Samuel T., China
- Chase, Morris, D. C.
- Chaves, Manuelita, N. M.
- Chenault, Roy L., Ky.
- Cheyney, Jesse S., Va.
- Chisholm, Mary Eunice, Md.
- Chisholm, Mrs. Miriam U., D. C.
- Clapham, Wentworth B., N. Y.
- Clark, Helen, D. C.
- Clark, Howard S. P., D. C.
- Clark, Hugh K., Va.
- Clarke, India Payne, D. C.
- Clarvoe, George William, Jr., D. C.
- Coakley, Harry B., Va.
- Coblentz, Catherine C., D. C.
- Cockerill, Frank, D. C.
- Cockerille, Louise, Va.
- Coe, Bryan, D. C.
- Coffman, Dorothy, Miss.  
A. B., 1924, George Washington University
- Cole, George R. L., Jr., D. C.
- Cole, John Will, D. C.
- Cole, Mrs. Mary J., Pa.
- Cole, Virginia A., D. C.
- Coleman, Annie Eaton, Va.
- Coleman, James K., S. C.  
B. S., 1919, The Citadel
- Collins, John Paul, D. C.
- Collins, Patrick Joseph, D. C.
- Collis, Fern, Md.
- Colquitt, Dolores, D. C.
- Connick, Mildred Ruth, D. C.
- Connolly, Helen L. C., Mass.
- Conover, Ruth A., N. Y.
- Cook, Edward R., Md.
- Cook, Marina Jones, D. C.
- Coolidge, Helen M., D. C.
- Coon, Ethel Louise, Ohio
- Cooper, Albert D., Va.
- Cooper, Donna Marie, Va.
- Cooper, Harold H., D. C.
- Cooper, Virginia Marion, D. C.
- Corkery, Opal, D. C.
- Corliss, James C., Calif.  
A. B., 1914, Harvard
- Cornell, Madeline H., D. C.
- Cox, Carrie J., W. Va.  
A. B., 1922, George Washington University; M. S., 1923, George Washington University
- Cox, Claire London, D. C.
- Cox, Fabian C., D. C.
- Craig, Wesley, D. C.
- Crane, Evelyn, N. J.
- Cresdon, Sara A., Va.
- Crenshaw, Mrs. R. P., D. C.
- Crockett, Bessie Lee, D. C.  
A. B., 1924, George Washington University
- Croissant, Dorothy, D. C.
- Croissant, Eula Lucille, D. C.
- Cromer, Kenneth, Va.
- Crook, Anna Margaret, D. C.
- Crook, Ella M., D. C.
- Cross, Howard Clinton, D. C.
- Crothwait, Stanley W., Md.
- Crowell, Frances, D. C.
- Crouse, Anna Mary, Pa.
- Crouter, Earl, Wyo.
- Culbertson, Ruth, N. C.
- Cullen, Blanche, N. Mex.
- Cullen, James A., Ill.
- Cullinan, Edmund Paul, N. Y.
- Cunningham, Frank E., Mass.
- Cunningham, Laura J., Ind.
- Curtiss, Juliet Mae, D. C.
- Curtiss, Robert, D. C.
- Cutts, Mrs. Emily M., D. C.
- Daigle, Elizabeth Ann, D. C.
- Danforth, Paul E., D. C.
- Darling, Ralph E., N. Y.
- Darnell, Robert, D. C.
- Daugherty, Jesse C., Ind.
- Davis, Channing O., D. C.
- Davis, Emily C., D. C.
- Davis, Maud Watson, D. C.
- Davis, Orna G., Md.  
A. B., 1911, Erskine College; B. D., 1914, Princeton
- Davis, Walter S., D. C.
- Davidson, Lonelle, D. C.
- Dawsey, Kathryn, D. C.
- Day, Ruth Esther, Ohio
- Day, Sara M., D. C.
- Day, Wilfred P., D. C.
- Dean, Eluda B., D. C.
- Dean, Helen, Mo.
- Deana, Amelia B., D. C.
- Deardoff, Evelyn Frances, D. C.
- DeBaryshe, Corinne, D. C.
- DeHerry, Myra Jones, Va.
- Dendinger, Gertrude, Nebr.  
A. B., 1925, George Washington University
- Deagler, Ernest H., D. C.
- Demko, Rita C., D. C.
- Denning, Julia Lee, D. C.
- DeSilvia, Maxine M., D. C.
- \*Dick, James McF., Jr., Md.
- Dickens, Paul DeWitt, Ohio  
A. B., 1922, Hiram College
- \*Didden, Clement A., D. C.
- Diller, Hilda Marie, D. C.
- Dillen, Alexander E., D. C.
- Dinowitz, Pearl, D. C.
- Dip-Tsang, Moy, Calif.
- Dix, Helen, D. C.
- Doddy, Mary Agnes, D. C.
- Dolinsky, Ida, D. C.
- Donahue, Mary Helena, D. C.
- Doody, Agnes Margaret, N. Y.
- Doolittle, Raymond F., Mich.
- Douglas, Mrs. Cornelia W., Ind.
- Dower, Harold Irwin, D. C.
- \*Draconopoulos, Peter T., D. C.
- Drueger, Anna Evelyn, D. C.
- Drake, Elizabeth, D. C.
- Drasny, Mary Elizabeth, D. C.
- \*Driscoll, Raymond, D. C.
- Driscoll, Stephen J., Mass.
- Dufka, Cecilia, D. C.
- Dunbar, Errol, D. C.
- Dunne, Eleanor C., D. C.
- Durand, Mildred May, D. C.



- Dutton, Lillian, D. C.  
 Dye, Geneva, D. C.  
 Eagle, Robert, N. J.  
 Earle, Sherod, D. C.  
 Ernest, Mildred, D. C.  
 Earp, Essie Lou, Tex.  
     A. B., 1926, Howard Payne  
 Edinburg, Mrs. Florence, Mich.  
 Edwards, Edith V., Ohio  
 Edwards, John A., Miss.  
 Edwards, Robert O., D. C.  
 Egbert, Freda Dorothy, D. C.  
     A. B., 1915, George Washington  
     University  
 Egli, Clara K., D. C.  
 Ehrman, Joseph, D. C.  
 Eidhammer, Dorothy, D. C.  
 Eisenberg, Herman, D. C.  
 Eliason, Howard R., D. C.  
 Ellenberger, William J., D. C.  
 Ellsworth, Ruth M., Utah  
 Elsberry, E. Lyle, N. Dak.  
 Eshler, Irving, N. Y.  
 Erwin, Katherine A., N. C.  
 Escher, Julia M., Ariz.  
 Evans, Harvey Lee, D. C.  
 Evans, Verna Grace, D. C.  
 Everett, Hugh, Jr., Tex.  
 Everett, Kathryn, D. C.  
 Flack, Leidy James, Utah  
 Farley, Ray Francis, N. J.  
 Farrar, William C., Va.  
 Farrell, Fred C., D. C.  
 Fauntleroy, Frances Dearing, Va.  
 Faust, Eleanor, D. C.  
 Federico, Mrs. Bianca M., D. C.  
 Feldman, Richard L., D. C.  
 Feldstone, Benjamin, D. C.  
 Ferguson, Robert D., D. C.  
 Ferris, Laura, N. Y.  
 Feustel, Urvn Carl, D. C.  
 Fiorstone, Cleon K., Pa.  
 Filley, Ferris B., D. C.  
 Finckel, Elinor K., D. C.  
 Finney, Cecil Glen, W. Va.  
 Finnie, Ruth, D. C.  
 Fisher, Josephine, D. C.  
 Fitzgerald, John K., N. Y.  
 Fitzpatrick, Albert, Wyo.  
 Flack, Murray M., Tex.  
 Flagg, Mrs. Grace Lillian, D. C.  
 Fleck, Charles Hayden, Jr., Pa.  
 Fleck, James H., Pa.  
 Fluckey, Frances Lucille, D. C.  
 Folta, Eleanor, Va.  
 Ford, Edith G., N. C.  
 Ford, Signa, D. C.  
 Foster, George Nelson, D. C.  
 Foster, Hampton H., D. C.  
 \*Foster, Ruth E., D. C.  
 Fox, James Fulton, D. C.  
 France, Ramon D., Tenn.  
 Frankenhoff, Frances, Kans.  
 \*Frazier, Melvin S., N. Dak.  
 Frederick, Carl, Va.  
     A. B., 1925, Nebraska Wesleyan  
     University  
 Freidson, Isadore, Va.  
 \*Frits, Florence R., D. C.  
 Fuller, Carrie May, D. C.  
 Fuller, George M., D. C.  
 Funk, Kate C., D. C.  
 Furr, Roger T., D. C.  
 Gahn, Haldor Louis, Ohio  
 Gaines, Jay C., Iowa  
 Galatzo, Frances, D. C.  
 Gallagher, Edward, D. C.  
 Gallagher, James Francis, Pa.  
 Gansly, Hoka, D. C.  
 Gantley, Helen G., D. C.  
 Garber, Raymond S., D. C.  
 Gardner, Truman G., Pa.  
 Gardner, Wanita, Pa.  
 Garman, Allen D., D. C.  
 Garrels, Agnes F., D. C.  
 Gatins, Nell, Ga.  
 Geary, Nora R., Md.  
 Geisler, Robert Henry, Calif.  
 George, Malcolm A., D. C.  
 Gerry, Philippe E., D. C.  
 Gettinger, Ted, Okla.  
 Getty, Carolan B., Md.  
 Getty, Mildred, Md.  
 Gibson, Mary Snyder, D. C.  
 Gibson, Oba Juan, D. C.  
 Gilbert, Morgan M., D. C.  
 Gill, Newell Raymond, Mo.  
 \*Gleason, Walter B., D. C.  
 Glover, Catherine, D. C.  
 Glover, Elmer Wheeler, Jr., Ohio  
 Glover, George Francis, D. C.  
 Gold, Deborah, Mass.  
 Goldman, Benjamin, D. C.  
 Goldsmith, Joseph B., Va.  
 Goldstein, Harry Samuel, D. C.  
 Goldman, Joseph, D. C.  
 Gonzales, Ramon B., P. I.  
 Gooch, Donald W., D. C.  
 Goodloe, Agnes, D. C.  
 Gordon, Richard C., Miss.  
 Gorham, Warren A., La.  
 Goss, John H., Pa.  
 Gaff, George U., D. C.  
 Graham, Henry U., D. C.  
 Graham, Penelope, D. C.  
 Gravatt, Florence, D. C.  
 Graves, Florence E., Okla.  
 Gray, Joseph E., D. C.  
 Gray, Marcoline, D. C.  
 Greenland, Bruce E., D. C.  
 \*Greenwood, Ruth, D. C.  
 Gregg, Emma Gibson, D. C.  
 Gregory, Susie E., Va.  
 Griffith, Eugene E., D. C.  
 Griggs, Lula J., Tenn.  
 Gross, Ralph F., Okla.  
 Grossberg, Solomon, D. C.  
 Groves, Louise, D. C.  
 Grutzik, Frank E., Wis.  
 Guard, Madge Lee, D. C.  
 Guerrier, Salvatore, Mass.  
 Guy, Irene, D. C.  
 Haberberger, Francis Anthony, D. C.  
 Hageage, Charles, D. C.  
 Hamilton, Ann, D. C.  
     A. B., 1926, George Washington  
     University  
 Hampton, Alice, Okla.  
 Hance, Emma O., Va.  
 Hand, Ellsworth J., D. C.  
 Handy, Jessie B., D. C.  
 Hanson, Alfred F., Denmark  
 Harbaugh, Y. D., Jr., D. C.  
 Harecourt, Gertrude T., D. C.  
 Hardy, Margaret B., D. C.  
     A. B., 1917, George Washington  
     University  
 Hardy, William, Jr., D. C.

- Harlan, Ashlan F., Jr., D. C.  
 Harlan, Frances M., D. C.  
 Harper, Robert M., D. C.  
 Harris, Gertrude L., D. C.  
 Harris, Martha E., D. C.  
 \*Harris, Thomas F., N. C.  
 Harrison, Mrs. Lolla S., D. C.  
 Harrison, Sumner, Va.  
 Haskins, Anne Menden, Va.  
 Hasekopl, Augustus L. Nebr.  
 Hatfield, Dora B., D. C.  
 Hauke, Edna E., D. C.  
 Haycock, Bernadine J., D. C.  
 Haydon, Edith M., Va.  
 Hayes, Jennie V., Pa.  
     A. B., 1925, George Washington University  
 Hazell, Audrey V., D. C.  
 Heagy, Daniel W., D. C.  
 Heald, Delight, Ind.  
 \*Healy, James Francis, Conn.  
 Heavener, John F., Md.  
 Hockett, George T., W. Va.  
 Hedrick, Anna F., Va.  
 Heins, Fred, Mo.  
 Heits, Flora, Ky.  
 Helventine, Albert H., D. C.  
 Henderson, Elizabeth, D. C.  
 Hendrikson, Lydia, D. C.  
 Henninger, Fern E., Pa.  
 Hensel, Minnie Viola, Ohio  
 Hensley, Richard G., Tenn.  
 Henson, Rex Thomas, D. C.  
 Heriot, Laura L., Porto Rico  
 \*Herndon, Effie, D. C.  
 Herr, George S., Pa.  
 Hess, Laurie Floyd, D. C.  
 Hessler, Agnes Bertha, D. C.  
 Hester, Marguerite, Tex.  
 Heyl, Dorothy, D. C.  
 Heyl, Lucy Knight, D. C.  
     A. B., 1925, George Washington University  
 Hicks, Pearl, Ma.  
 Hill, Cynthia, D. C.  
 \*Hill, Dorothy, D. C.  
 Hill, Florence, Ind.  
 Hill, John Rowland, D. C.  
 Hilton, George P., D. C.  
 Himes, William D., W. Va.  
 Hinaman, Lucille, Md.  
 Hiseox, Nell F., Md.  
 Histon, Timothy G., D. C.  
 Hodge, Ralph W., D. C.  
 Hodges, Louis C., D. C.  
 Hoffman, Gene Louise, D. C.  
 Hohn, Allie, D. C.  
 \*Holsen, Beulah, Mo.  
 Holland, Sarah, D. C.  
 Holmes, Thomas J., Md.  
 Hopkins, Abby E., D. C.  
 Hurbett, John E., N. Y.  
 Horigan, Florence, Wis.  
 Horn, Bernadine, D. C.  
 Horner, Charles K., Va.  
 Horvath, Roscoe F., Ky.  
 Hottel, Guy, Va.  
 House, Harry R., Pa.  
 House, Matthew James, D. C.  
 Howlett, James B., D. C.  
 Hoyt, John M., D. C.  
 Hubbard, Henry F., D. C.  
 Huber, Elbert L., Nebr.  
 Hufnagel, Charles F., D. C.  
 Hughes, Harvey R., Md.  
 Hughes, Louise R., D. C.  
 Hull, Ralph Moody, W. Va.  
 Hull, Raymond M., Mass.  
 Humber, Marion Louise, Ga.  
 Hummer, Hiram W., Okla.  
 Hummelt, Edward Harold, D. C.  
 Hunt, Lucy Jones, D. C.  
 Hunt, Thelma, D. C.  
     A. B., 1924, George Washington University; A. M., 1925, George Washington University  
 Hutton, Alvin C., D. C.  
 \*Hyland, Lawrence A., D. C.  
 Icaza, Susa A. A., Panama  
 Iglsbart, Donald, D. C.  
 Ignatius, Eunice J., N. J.  
 Ingie, Albert G., Miss.  
 Ingold, John G., D. C.  
 Irwin, Robert L., D. C.  
 Jacobson, Murray B., N. J.  
 James, Henry H., D. C.  
 James, William G., D. C.  
 \*Jeffries, Eugenia, S. C.  
 Jeffreys, Robert L., W. Va.  
 Jelly, Norman T., Va.  
 Jenkins, Ida May, D. C.  
 Jessup, Daniel A., Okla.  
 Jex, Garnet W., D. C.  
 Johnson, Florence Mary, D. C.  
 Johnson, Harry W., D. C.  
 Johnson, Marius P., Conn.  
 \*Johnson, Mrs. Adelaide T., Minn.  
 Johnston, Everett Dale, Ohio  
 \*Jones, Evelyn W., D. C.  
     A. B., 1921, George Washington University  
 Jones, Monnie Nell, Fla.  
 Jones, Virginia M., D. C.  
 Joseph, Reuben A., Utah  
 Jovane, Nicolas, Panama  
 Junkin, Kathryne, D. C.  
 Kahn, Helen, D. C.  
 Kail, Benjamin, Pa.  
 Kardys, John A., Conn.  
 Karmany, Edward L., Pa.  
 Katz, Leon, D. C.  
 Katz, Max, D. C.  
 Kauffman, William P., Jr., D. C.  
 Kean, Agnes Josephine, D. C.  
 Keefer, Helen B., D. C.  
 Kelly, Dorothy, Va.  
 Kelly, Joseph Leo, W. Va.  
 Kennedy, Mabel Louise, Va.  
 Kennedy, Mary Hanford, D. C.  
 Kennedy, Willie Maude, Tex.  
 Keough, Paul H., D. C.  
 Kernan, Ruth T., D. C.  
 Ketchum, Miriam B., Ga.  
 Kettering, James H., D. C.  
 Keyser, Joseph, D. C.  
 \*Kiernan, Helen Cogan, D. C.  
 Killarney, Francis M., Mass.  
 Kingsbury, Stuart S., Mich.  
 Kinney, Olive C., D. C.  
 Kirby, Virginia, D. C.  
     A. B., 1926, George Washington University  
 Kirkland, James Robert, D. C.  
 Kisk, George Edward, Wis.  
 Kline, Emily, D. C.  
 Kline, Muriel Marie, Ark.  
 Knight, Perle, Ala.  
 Knotts, Laura S., Md.



- Koch, Victor E., Miss.  
 Kohl, Bertha, D. C.  
 Kohn, Eva, D. C.  
 Kolodney, Aaron O., D. C.  
 Kononuk, Alexander C., Conn.  
 Koonce, Anna Rebecca, D. C.  
 Kosow, Maurine, D. C.  
 Kossnager, Kate G., D. C.  
 Krause, Mrs. Mary H., D. C.  
 Kreider, Mary M., Pa.  
 Krenner, Alvin W., Va.  
 Krenner, Milton, Ohio  
 Krider, Harrison S., Pa.  
 Krieg, Elsie M., D. C.  
 Kuder, Katherine, Pa.  
 Kuzile, Edna E., Ind.  
 Kunzman, Marie E., Pa.  
 Kurtz, Herbert G., Pa.  
 Lacaze, Eulalie, Tex.  
 Laay, Katherine, D. C.  
 Lamar, Edward S., Md.  
 Lamson, Elizabeth H., D. C.  
 Lane, William R., Nebr.  
 Lanham, Benjamin E., D. C.  
 Lansdon, Henry L., D. C.  
 InQuay, Robert R., D. C.  
 Larson, Ella A., Wis.  
 Lashby, Stewart D., Pa.  
 Lauck, Leona, Va.  
 Lee, Leba, D. C.  
 LeComar, Russell A., Va.  
 LeHew, Allen E., D. C.  
 LeMenager, Madeleine, D. C.  
 Lepman, Harry, D. C.  
 Levine, Jude R., D. C.  
 Levine, Samuel, D. C.  
 Lewis, Elizabeth S., D. C.  
 Lewis, Lillie V., D. C.  
 \*Lewis, Winifred Coyne, D. C.  
 Lewis, Maud, D. C.  
 Lewis, Nancy Ellyson, Va.  
 Liehtman, Abraham, D. C.  
 Lile, John Stout, S. C.  
 Lile, Carolyn, D. C.  
 Lind, Alma Grace, Iowa  
 Lindberg, Andrew R., D. C.  
 Lindquist, Clarence A., Iowa  
 Lindsley, Howard A., Fla.  
 Lindstrom, Albert T., Mich.  
 Linfoot, Francis C., D. C.  
 Little, Ruth E., D. C.  
 Littlepage, Ellen M., D. C.  
 A. B., 1925, George Washington  
 University  
 Lockwood, Daniel H., D. C.  
 Loman, William M., D. C.  
 Louft, Rubin R. A., Md.  
 Loveland, Allene Jane, D. C.  
 Lucas, Bertha L., D. C.  
 A. B., 1923, George Washington  
 University  
 Luce, Clifton H., D. C.  
 Ludlow, Jerome M., D. C.  
 \*Ludwig, Ralph V., Ohio  
 Lunley, Mathlan, N. C.  
 Lushy, Viola B., D. C.  
 Luttrell, Ralph Joseph, Va.  
 \*Lynch, Lucy Greene, D. C.  
 Lynch, Mary Margaret, Va.  
 Lyon, David, S. C.  
 Lyon, Sidney B., D. C.  
 McAllister, Gladys, N. Y.  
 McCarthy, Robert E., D. C.  
 McCarty, Oneta, Wash.  
 McClellan, Irvin R., Ind.  
 McClintie, Mary Vance, Okla.  
 McClure, Earl C., D. C.  
 McColligan, Mary Alice, Mass.  
 McCormick, Homer, Okla.  
 McCoy, Ellis E., Jr., Md.  
 McCoy, William F., Md.  
 McCrary, Ibtie Elizabeth, Ark.  
 McCullough, Roydon K., Utah  
 McCusker, Mary G., D. C.  
 McDonald, Nellie A., Ind.  
 McDonough, Margaret T., D. C.  
 McDougle, Edith Augusta, D. C.  
 McFarland, William N., D. C.  
 McGee, Florence M., N. Y.  
 McGhee, Dallas L., D. C.  
 McGill, Harry Earl, D. C.  
 McKee, Gladys, D. C.  
 McLeroy, Bryant Z., La.  
 McMillan, James M., Pa.  
 McMinimay, Mary W., D. C.  
 McMullen, Francis E., Md.  
 McNamara, Rosemary, D. C.  
 McPherson, Richard K., Mo.  
 McWhorter, Julian H., D. C.  
 \*Machen, Frances, D. C.  
 Machen, John William, D. C.  
 Macina, Mary L., D. C.  
 Magarity, Erma E., Va.  
 Mahon, Walter W., D. C.  
 Mauran, Jersida, N. Y.  
 Malcolm, Dwight L., Okla.  
 Maley, Frank, Md.  
 Malone, James Fabian, Ill.  
 Malone, Marion R., D. C.  
 Mangum, M. Ethel, D. C.  
 Mangum, Sude A., D. C.  
 Manson, Esther Ann, D. C.  
 Mann, James B., D. C.  
 Mann, Margaret, D. C.  
 Manning, Dorothy C., D. C.  
 Manning, Ellis W., D. C.  
 Manning, Lee Compton, Md.  
 Manning, Mrs. Lucy R., Okla.  
 Manning, Rosalie, Md.  
 Marcason, Lillian, D. C.  
 Maroney, Mary, Pa.  
 Marquis, John F., D. C.  
 Marshall, Elliott D., Va.  
 Marshall, Murray L., Md.  
 Marshall, Rush P., D. C.  
 Martin, Esther L., D. C.  
 Martin, Samuel H., N. H.  
 Mason, Chorus K., D. C.  
 Mason, Mrs. Richard N., Iowa  
 Masterson, Elizabeth, D. C.  
 Matthews, Lucille L., D. C.  
 Matthews, Maria D., D. C.  
 Mattingly, Mary Alice, D. C.  
 Mattingly, Richard V., D. C.  
 Mattox, Gail, Ohio  
 Mattox, Virginia A., D. C.  
 Maxwell, Julia A., Fla.  
 May, Alfred A., D. C.  
 \*Maynard, Everett P., Ill.  
 Maze, Charles A., Ark.  
 Mead, Mabel C., D. C.  
 Meade, Spencer, D. C.  
 Meekins, Igonie, Wis.  
 Meeks, Benjamin, D. C.  
 Mendelsun, Joseph L., D. C.  
 Mender, Angel, P. R.  
 Menges, Mary Saut, Pa.  
 Meusel, Margaret L., D. C.

- \*Menzel, Robert Henry, D. C.  
 Meredith, Richard H., Jr., D. C.  
 Mermat, Irene, D. C.  
 Merrick, Harold, Iowa  
 Mesa, Manuel, Mexico  
 Messenger, Frank, Tex.  
 Metro, Nathan A., D. C.  
 \*Mezitis, Fato, D. C.  
 Mickler, Albert S., D. C.  
 Miles, Elizabeth, D. C.  
 Miller, Bruce Ervin, Ohio  
 Miller, Ella, D. C.  
 Miller, Ellen W., D. C.  
 Miller, Mary Agnes, D. C.  
 Miller, Russell P., D. C.  
 Miller, Ruth M., D. C.  
 Miller, William J., Md.  
 Milligan, John, D. C.  
 Millisor, Berdine, Ohio  
 Mills, Benjamin J., D. C.  
 \*Mills, Cool W., D. C.  
 \*Mitchell, Elizabeth, D. C.  
 Mitchell, Helen, I., D. C.  
 \*Mitchell, William H., D. C.  
 Mohr, Charles Franklin, D. C.  
 Monroe, Mildred J., Va.  
 Montgomery, Newton, W. Va.  
 Montgomery, William H., D. C.  
 Moore, Helen, D. C.  
 Moore, Myrtle E., Tex.  
 Moore, Ruth R., Kans.  
 Morgan, Mrs. Anna W., D. C.  
 Morgan, Stephen E., Ga.  
 Morris, Charles M., D. C.  
 Morris, Kirtley James, Md.  
 Morris, Laura, D. C.  
 Morris, Rachel, N. Y.  
 Morris, Sara Roberts, Va.  
 Morrison, Laura Estelle, D. C.  
 Morscher, Mary Florence, Va.  
 Morton, Mrs. Amale DeCell, Miss.  
 Moskey, Frank R., Md.  
 Moss, Mrs. Rose Mercer, Md.  
 A. B., 1924, George Washington University  
 Moulton, Edward Burton, Ill.  
 A. B., 1923, George Washington University; A. M., 1925, George Washington University  
 Muller, Raymond, N. Y.  
 Mullins, Mrs. Irma, D. C.  
 Murphy, Albert V., D. C.  
 Murphy, John A., D. C.  
 \*Murphy, Lawrence W., D. C.  
 Murray, Elizabeth Louise, D. C.  
 \*Murray, Howard William, Ohio  
 \*Murray, Hallie A., D. C.  
 Murray, Thelma Marie, Ala.  
 Musselman, Ruth Fern, Ohio  
 B. S., 1919, Michigan State College  
 Mutchler, Willard H., Pa.  
 Myers, Alfred T., Md.  
 \*Myers, Wilmer Louis, Va.  
 Nations, Florence E., D. C.  
 A. B., 1923, George Washington University; A. M., 1925, George Washington University  
 Nazareno, Alfredo, D. C.  
 Neal, Chester, D. C.  
 Neal, Martha Hamilton, Ga.  
 Nelson, Reuben A., Calif.  
 Nelson, Henning R., Ill.  
 L.L. B., George Washington University  
 Nelson, Roy W., Nebr.  
 Nevius, Richard D., D. C.  
 Newman, Howard Ellsworth, D. C.  
 Newman, Jacob Randolph, D. C.  
 Newman, Magdalene R., Ohio  
 Nicholas, Frances L., Md.  
 Niskgen, Theodore B., Mont.  
 Noland, William G., W. Va.  
 Nordstrom, Lillian C., D. C.  
 Norman, Herman, D. C.  
 Norria, Landy, Utah  
 Northrop, Vernon D., Pa.  
 Noyes, Martha, Pa.  
 A. B., 1926, George Washington University  
 Oakley, Elena, Minn.  
 O'Connor, Joseph Louis, N. Y.  
 A. B., 1926, George Washington University  
 O'Donnell, Roger, N. Y.  
 Oehser, Paul Henry, N. Y.  
 Offut, Viola, Md.  
 A. B., 1920, George Washington University  
 \*Ogle, Benjamin F., Ind.  
 Ogua, Walter, D. C.  
 Oldaker, Mary Fern, Mo.  
 Olson, Alben, Idaho  
 Olson, William Howard, Jr., Minn.  
 Omwake, Katherine, D. C.  
 A. B., 1924, George Washington University; A. M., 1925, George Washington University  
 O'Neill, Mary Elizabeth, Conn.  
 O'Neill, Catherine Ann, Md.  
 O'Neill, John Thomas, D. C.  
 Orndorff, Mildred Lee, Va.  
 Orndorff, Roy L., Va.  
 Osmond, Harvard, Utah  
 Otley, Orra L., Va.  
 Owens, James U., D. C.  
 Palma, Joseph J., Nicaragua  
 Pamulo, Rafael, D. C.  
 Parker, Dorothy Gladys, D. C.  
 Parker, Elizabeth, D. C.  
 Parsons, William H., D. C.  
 Partlow, Benjamin W., Va.  
 B. S., 1921, Washington and Lee  
 Paulson, Julia Anna, Ind.  
 A. B., 1925, George Washington University  
 Payne, Esther K., D. C.  
 Payne, John B., D. C.  
 \*Pearall, Harold B., Ohio  
 Peoples, Elizabeth K., D. C.  
 Pierce, Lottie M., Md.  
 Pepin, Theophilus N., D. C.  
 Perdue, Catherine, Md.  
 Pergler, Ella, D. C.  
 \*Perry, Donald J., Pa.  
 Peter, Fannie I., Ill.  
 Peters, May Ellisor, D. C.  
 \*Peterson, Robert D., Tex.  
 Peterson, Thomas Hardin, Tex.  
 Petrie, John S., D. C.  
 A. B., 1926, George Washington University  
 Pettit, Jane Mason, Mich.  
 \*Pettitt, Bernard A., D. C.  
 Philpitt, Emma Constance, D. C.  
 Pierpont, Mahal Eva, D. C.  
 Pierson, Bernice, Md.  
 Pike, Albert Hamilton, D. C.  
 Plotaky, Albert, D. C.



- Plampton, Vincent W., Wis.  
 Pohl, Erwin Robert, N. Y.  
 A. B., 1925, George Washington University; A. M., 1926, George Washington University  
 Poindexter, Earleane, N. C.  
 Pollard, Rella, D. C.  
 Popham, Kenneth Robert, Mont.  
 Popkins, George Ross, D. C.  
 Porteous, Marion D., Canada  
 Porter, Mrs. Green C., D. C.  
 Post, Arthur T., D. C.  
 Potts, John Bernard, Va.  
 A. B., 1925, George Washington University  
 Power, Jean Marie, D. C.  
 Pozniak, Blanche W., Mich.  
 Preininger, Edward R., Pa.  
 Prentiss, Spencer, D. C.  
 Price, Burns D., D. C.  
 Proal, Beatrice, Mass.  
 Prowski, Ethel M., D. C.  
 Puick, Esther S., D. C.  
 Pullen, Dorothy Catherine, D. C.  
 \*Purris, Don Ricardo, D. C.  
 Quirk, Anna Myrtle, Pa.  
 Radcliffe, Bertha, N. Y.  
 Radcliffe, Rowena E., D. C.  
 Radue, Richard G., D. C.  
 Raimond, John Ralph, D. C.  
 Ramsay, Marion L., D. C.  
 Ramsey, Olive E., D. C.  
 Randolph, Cary J., D. C.  
 Ranow, Pearl Mae, D. C.  
 Rapp, Leslie M., D. C.  
 Raus, Emma Louise, D. C.  
 Ready, Daniel, Md.  
 Heardon, Lucy, Va.  
 A. B., 1925, George Washington University; A. M., 1926, George Washington University  
 Redford, Carroll, Ky.  
 Redford, Alice, Iowa  
 \*Redman, Mabel L., Ohio  
 Redrow, Margaret Eileen, D. C.  
 Reeside, Arthur M., D. C.  
 Reid, Loren D., Iowa  
 Reneau, Thomas A., Tex.  
 Replogle, Thelma A., D. C.  
 Resh, Mary Sherman, D. C.  
 \*Rhees, Louise, D. C.  
 Rice, Coke Smith, D. C.  
 Richardson, Florence, Minn.  
 Richart, Ruth E., D. C.  
 Riley, Ethel E., Ohio  
 Rippey, Aaron S., D. C.  
 Rippeon, Edith I., N. Y.  
 Ristig, William B., D. C.  
 Ritchie, Robert E., Mich.  
 Robberts, William C., Va.  
 Roberts, Clyde, Minn.  
 Roberts, Eula Maud, D. C.  
 Roberts, Nell Richardson, D. C.  
 Roberts, Sarah P., D. C.  
 Robinowitz, William, D. C.  
 Robinson, Anna R., D. C.  
 Roche, William A., D. C.  
 Rockwood, Roy, D. C.  
 Rodier, Phil L., D. C.  
 Rogers, Otho L., Miss.  
 Rohrer, Harvey V., Kans.  
 A. B., 1924, George Washington University  
 Romhill, Arthur C., D. C.  
 Ronning, Mrs. Minnie M., Minn.  
 Roening, Ruth K., Minn.  
 Rose, Kittie, Kans.  
 Rosenthal, Jacob, N. Y.  
 Rosson, Bernard A., D. C.  
 Rouse, Mary Roselle, D. C.  
 Royer, Walter John, D. C.  
 Rambough, William S., D. C.  
 Russell, Archibald L., D. C.  
 \*Russell, Olivia, Ga.  
 Ruth, Catherine Rose, D. C.  
 Rutter, Ella F., D. C.  
 Ryan, Mrs. Josephine Hart, D. C.  
 Saegmuller, George Nicholas, Va.  
 Sakis, George Panagiston, Greece  
 Salter, Francis M., N. Y.  
 Sampson, Hugh B., Md.  
 Sanderson, Lennie Roberts, Miss.  
 Saribay, Teofilo, D. C.  
 Baum, Blanche, W. Va.  
 Scarborough, Dorothy L., Tex.  
 Scarborough, Houston M., Tex.  
 Scarborough, Maryann, D. C.  
 Scarborough, Walter B., Tex.  
 Scharinger, Anna, Md.  
 Schaub, Morris J., D. C.  
 Scheer, Sylvia, D. C.  
 Schukat, Kathryn, Wis.  
 Schnooberger, William, D. C.  
 Schricker, John Adams, N. H.  
 Schwartz, Sylvia T., D. C.  
 Schwarz, Raphaela, D. C.  
 Schwim, George H., D. C.  
 Scott, Paul F., D. C.  
 Scriven, C. Elizabeth, D. C.  
 Scrivener, Katherine, D. C.  
 Seaquist, Edgar O., D. C.  
 Seaquist, William H., D. C.  
 Seckinger, Charles Robert, D. C.  
 Sedam, Robert Weir, D. C.  
 Seeley, Emma M., N. Y.  
 Semanaki, Edward J., D. C.  
 Senior, Mildred R., Kans.  
 Severance, Belknap, Md.  
 Seymour, Henrietta, D. C.  
 Shaughan, Katherine A., Kans.  
 Shapiro, Irvin, D. C.  
 Shapiro, Samuel, D. C.  
 Shapiro, Nathan, N. Y.  
 Sharman, Susie Anna, Va.  
 \*Shaw, Arthur LeGrande, Md.  
 Sheada, Mary Elizabeth, D. C.  
 Sheets, Olive Amy, D. C.  
 B. S., 1910, Ohio State University;  
 M. S., 1914, University of Wisconsin  
 Shepard, Ernest S., D. C.  
 A. B., 1925, George Washington University  
 Shepherd, Matson Wayne, Md.  
 B. S., 1923, University of Maryland  
 Sherman, Mildred S. (Mrs.), D. C.  
 A. B., 1919, Oberlin College  
 Short, Margaret M., D. C.  
 Shrewsbury, Madeline, Md.  
 Siehl, William T., D. C.  
 Siegal, Abner, D. C.  
 Silsby, Howard, D. C.  
 Silverman, Mrs. Gertrude, Md.  
 Silverman, Joseph B., D. C.  
 Silverman, Morris, D. C.  
 Simons, William H., Conn.  
 Simpson, Gertrude D., N. Y.  
 Simpson, Thomas F., D. C.

- \*Simpson, William S., Va.  
 Sims, Martha T., D. C.  
 Sklar, Robert, D. C.  
 Slechts, Marie, D. C.  
 Sloan, Nathaniel, D. C.  
 Smith, Carrie Weaver, Tex.  
 Smith, Carroll Newton, D. C.  
 Smith, David Roland, Ohio  
 Smith, Donald W., D. C.  
 Smith, Earl C., D. C.  
 Smith, Frank, D. C.  
   A. B., 1923, George Washington University  
 Smith, Frank Waddoe, Ind.  
 Smith, Hazel Julia, Mass.  
 Smith, Helen, D. C.  
 Smith, Hugh Stewart, D. C.  
   B. S., 1924, Northwestern University  
 Smith, Jonas M., N. Y.  
 Smith, Mary Haley, Tenn.  
 Smith, Ruth Lillian, D. C.  
 Smith, Wallace V., D. C.  
 Smith, Mrs. William Wolff, D. C.  
 Smoot, Kenneth M., D. C.  
 Sneed, Mary Miller, Va.  
   A. B., 1926, George Washington University  
 Snell, Gerard H., D. C.  
 Snyder, George Henry, Md.  
 Snyder, Monica G., D. C.  
 Solet, Leo, D. C.  
 Solt, William Charles, Ohio  
 Somerville, Mrs. Julia Chapin, D. C.  
 Sosa Eduardo, M., Panama  
 Souder, Laura, Md.  
 Soule, Floyd M., Wis.  
   Ph. B., 1923, Ripon College  
 Southard, Mary Taylor, D. C.  
 Sowers, John Adams, Va.  
 Spangler, George W., Pa.  
 Speer, Alma Jane, D. C.  
 Speight, Margaret, D. C.  
 Spicer, Harriet, D. C.  
 Spooner, Harling E., Md.  
 Stack, Clara L., D. C.  
 Stachnickenko, Lubov M., Russia  
 Stam, Lillian R., Md.  
 Stanley, Calvin, D. C.  
   A. B., 1923, University of Tennessee;  
   B. S., 1924, University of Tennessee  
 Stannard, Anna C., N. Y.  
 Starratt, Ruth, D. C.  
 Stein, David, D. C.  
 Stephens, Thomas, D. C.  
 Stephenson, Charles F., Mass.  
 Stephenson, Wiley A., Tex.  
   A. B., 1923, Simmons University  
 Stevens, Dorothy Belle, Okla.  
 Stevens, Fleming S., D. C.  
 Stevens, Grace M., D. C.  
 Stewart, Margaret Bell, D. C.  
 Stiles, Marie H., N. Y.  
 Stockard, John Mahon, D. C.  
 Stocker, Lucy Rebecca, D. C.  
 Stohr, Charles L., D. C.  
 Stokes, Joan C., D. C.  
 Stolar, Robert, D. C.  
 St-Omer-Roy, James Auguston, N. J.  
 Stork, Dorothea F., Va.  
 Strawbridge, Francis N., D. C.  
 Stretch, Mrs. Grace A., D. C.  
 Stribbing, Claudia B., D. C.  
 Strother, Emily R., D. C.  
 Styron, Elizabeth B., D. C.  
 \*Sulb, Louis, N. Y.  
 Sullivan, Mrs. Clara Parker, D. C.  
   B. L., 1911, Brenau College  
 Sutton, Don Franklin, D. C.  
 Swain, Esther M., Mich.  
 Swanton, Lucy Ada, D. C.  
 \*Swenley, Rudolphus S., D. C.  
 Swiger, Paula Edith, W. Va.  
 Swingle, Lester Monroe, D. C.  
 Swingle, Ralph H., D. C.  
 Swingle, William M., D. C.  
 Tammara, M. H., Egypt  
 Tan, Joseph Hing-long, China  
 Tandy, Lucile, Okla.  
 Tanner, Ivins S., Utah  
 Tappey, Charles S., Va.  
 Tchemmoff, Nada, D. C.  
 Teel, Blanche Lewis, D. C.  
 Tennyson, Joseph Burch, D. C.  
 Terry, George, D. C.  
 Thinsell, Mildred F., D. C.  
 Thomas, Alice Groves, D. C.  
 Thompson, Lois, D. C.  
 Thompson, William Dove, D. C.  
 Thorpe, Helen Monette, N. Y.  
 Throckmorton, Olga E., D. C.  
 Tieker, Louis, Pa.  
 Tinley, Wilmer Leon, Ga.  
 Tremesne, Thomas H., N. J.  
 Trimble, Agnes, D. C.  
 Trimble, William R., D. C.  
 Trushkin, Eva M., D. C.  
 Tucker, Sidney B., D. C.  
 Turner, Mrs. Sarah E., D. C.  
 \*Turner, William J., N. J.  
 Turoff, Dora M., D. C.  
 Turpin, Edward W., Va.  
 Uhl, Augusta, Ill.  
 Valde, Ernest Augustus, D. C.  
 VanCasteel, Mary Gershlime, Md.  
 Vanderbeek, Rachel, Md.  
 Vanderlip, Robert, D. C.  
 Van Sicker, Mary, Va.  
 Vaughan, Clara B., Va.  
 Veithmeier, Louise, D. C.  
 \*Vickers, Rose M., D. C.  
   A. B., 1923, George Washington University  
 Villanueva, Paterno, P. I.  
   A. B., 1923, George Washington University  
 Von Dachenhausen, George, D. C.  
 Voorhes, Frederick, D. C.  
 \*Wassche, Hugh H., D. C.  
 Walles, Raymond B., D. C.  
 \*Waldo, George F., Md.  
 Walker, Frances E., D. C.  
 Walker, Ruel Scott, Kans.  
 Wallace, Florence C., D. C.  
 Walmsmith, Retta E., D. C.  
 Walstrom, Joe D., Mo.  
 Ward, Robert S., D. C.  
 Ward, Wesley K., Jr., D. C.  
   A. B., 1923, University of Texas;  
   B. S., 1923, University of Texas;  
   M. S., 1926, George Washington University  
 Warner, Harold E., D. C.  
   A. B., 1913, George Washington University  
 Warner, Helen E., D. C.  
 Warner, Virgil H., D. C.



\*Warren, Donald H., D. C.  
 B. S., 1922, Cornell; A. M., 1925,  
 George Washington University  
 Warren, Ora Lee, N. C.  
 Warrington, Mary E., Del.  
 Wasson, Charles C., Pa.  
 Waterman, Bernice L., Mich.  
 Waters, James J., Pa.  
 Waters, Suzanne, D. C.  
 A. B., 1924, George Washington  
 University  
 Watkins, Mary Virginia, S. C.  
 Watkins, Samuel A., N. C.  
 Watson, Vinnie W., Va.  
 Webb, Willard, Tenn.  
 Webster, Frances M., D. C.  
 Wedgeworth, May, D. C.  
 Weeks, William A., D. C.  
 Weigel, William R., D. C.  
 Weibe, Herman D., D. C.  
 Weikert, Gladys, D. C.  
 Welch, Lindsey, W. Va.  
 Wells, Ruth, Iowa  
 Welsh, Nellie Irene, Pa.  
 Wender, Harry S., D. C.  
 West, Mrs. Louise M., Minn.  
 A. B., 1915, Mississippi State College  
 for Women  
 Wester, Robert E., Va.  
 Wetherill, George C., D. C.  
 Wetherill, John Price, Md.  
 Whaley, Mildred Cecile, D. C.  
 Whaley, William, D. C.  
 \*Wheeler, George W., Ind.  
 Whipple, M. Edith, Iowa  
 Whisman, James J., D. C.  
 White, Iris T., Md.  
 White, John T., D. C.  
 White, Winifred, Fla.  
 Whitestone, Isaac Melvin, Va.  
 Whitney, Alden Hallock, Md.  
 Whittier, Irving M., Conn.  
 Wibirt, Margaret R., Va.  
 Wiek, Florence L., Minn.  
 \*Wilcox, Chester M., D. C.  
 Wild, Estelle P., D. C.

Wildman, Elise P., D. C.  
 Wiles, Thelma, D. C.  
 Wilkins, Carl G., Va.  
 \*Wilkins, George E., Md.  
 Willard, William B., D. C.  
 Williams, Edith M., D. C.  
 Williams, Ella Virginia, D. C.  
 Williams, Genevieve R., Md.  
 Williams, Mrs. Georgia, D. C.  
 Williams, Irene, D. C.  
 Williams, Jessie L., Kans.  
 Williams, Milton, D. C.  
 Williams, Robert S., Jr., D. C.  
 Williams, Winifred May, Pa.  
 \*Williamson, William F., Okla.  
 Willard, John E., D. C.  
 Williford, Imogene, Miss.  
 Willoughby, Marion F., D. C.  
 Willis, Margaret L., D. C.  
 Wilson, Bertha Orris, Me.  
 Wilson, Braimard D., D. C.  
 \*Wilson, Donald M., D. C.  
 Wilson, Thomas B., Ia.  
 Wilthank, Elizabeth, D. C.  
 Winder, Norma May, D. C.  
 Windsor, Paulina, D. C.  
 Wine, Hilda K., D. C.  
 Wingard, Hugh D., Pa.  
 Wingfield, Virginia C., D. C.  
 Winstead, Mellie R., Va.  
 Winter, Ruth C., Pa.  
 Wolfe, Estella, Wis.  
 Wolfe, Jared D., Pa.  
 Wolford, Mary G., Va.  
 \*Woods, Lydia, D. C.  
 Wool, Ethel, D. C.  
 Wortman, Arthur Vance, D. C.  
 Yochelson, Irving B., D. C.  
 York, Brower V., N. C.  
 Young, Beulah Adams, Va.  
 Young, Clarence Morris, W. Va.  
 Young, Joseph R., D. C.  
 Zacher, Bernard, D. C.  
 Ziegler, Helen A., D. C.  
 Ziegler, Marian F., D. C.

Students Registered in the Department of Arts and Sciences 1926-27:

School of Graduate Studies—

Students in attendance.....	79	
Candidates for Ph.D. degree.....	45	
Candidates for M.S. degree.....	51	
Candidates for A.M. degree.....	219	
		394

Columbian College—

Candidates for A.B. degree.....	1,833	
Special Students .....	771	
Special Pre-Medical .....	62	
Special Pre-Legal .....	55	
Unclassified .....	115	
		2,836

College of Engineering—

Candidates for B.Arch. degree.....	62	
Candidates for B.S. in Chem. degree.....	38	
Candidates for B.S. in Chem. Eng. degree.....	48	
Candidates for B.S. in C.E. degree.....	114	
Candidates for B.S. in E.E. degree.....	110	
Candidates for B.S. in M.E. degree.....	73	
Candidates for B.S. in Physics degree.....	7	
Special Students .....	43	
Unclassified .....	28	
		523

Teachers College—

Candidates for A.B. degree and Teacher's Diploma in Education .....	446	
Special Students .....	134	
Unclassified .....	51	
		631

Total .....	4,384
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## PHARMACY

## REGULAR STUDENTS

Alley, Marion S., Ma.  
Ball, George Lindsay, Md.  
Barrett, Shelton J., D. C.  
Barnett, Edward, D. C.  
Bass, Benjamin, D. C.  
Berman, Maurice, Va.  
Bord, Ned Alfred, Va.  
Bradley, Louis F., Jr., D. C.  
Burns, Ted A., D. C.  
Carey, Burdell L., W. Va.  
Carter, George Rex, D. C.  
Cawthorne, Hugh Stockman, Md.  
Cohen, Ira Markel, Me.  
Crowther, Aloha Hare, Md.  
Feldstone, Bethsheba, D. C.  
Goldman, Myers, D. C.  
Goldstein, Louis John, D. C.  
Ives, Claude Pearson, Va.  
Keyser, Joseph, D. C.

\*Kolodny, Aaron, D. C.  
McMurray, J. Arthur, Tex.  
Mandel, Benjamin, D. C.  
Matta, Ernest, Va.  
May, Howard, Pa.  
Malis, Raymond, D. C.  
Membert, James, D. C.  
Pettitt, Bernard Alton, D. C.  
Pohl, Francis Ides, Va.  
Reznek, Solomon, D. C.  
Schaffer, Jacob, D. C.  
Sasser, Bert Campbell, Va.  
Silverman, Morris, D. C.  
Smallwood, Manuel Isidore, D. C.  
Sniegoski, Joseph M., D. C.  
Stafford, Oliver E., Md.  
Voorhees, Paul Leslie, N. Y.  
Yeelson, George, D. C.

## FIRST YEAR

*Alexander, Maxie Miller	D. C.	1746 K St. N. W.
Allison, James Clement	D. C.	1803 Ingleside Terrace
Barber, Donald C.	Ohio	1705 Kilbourne Place N. W.
B. F. S., 1926, Georgetown		
Barnum, Glenn Lewis	Calif.	24 Vista Ave., Oakerest
Beard, Alfred Bary	Alexandria, Va.	
Beyden, Robert Claibourne	Oreg.	225 First St. N. E.
Breslow, Samuel	N. Dak.	1449 Oak St. N. W.
Bryan, William Dean	N. J.	1126 12th St. N. W.
Bucciarelli, John Anthony	Pa.	1241 Kenyon St. N. W.
Calandrella, Ralph	Conn.	1220 Irving St. N. W.
Campbell, George K.	Conn.	1812 K St. N. W.
Cardwell, John Leland	Mo.	140 A St. N. E.
Carotenuto, Ralph	D. C.	603 F St. N. E.
Carrozza, Natalie Salvatore	N. Y.	1332 Vermont Ave.
Castillo, Julio Carlos	N. Y.	1429 Rhode Island Ave.
Cerreto, Frank	P. R.	1013 13th St. N. W.
Clements, Russen Francis	N. J.	1402 Mass. Ave. N. W.
*Colvin, John Albert	Pa.	1429 Rhode Island Ave.
D'Amola, Philip Raffaele	N. C.	1335 H St. N. W.
Delgreco, Arthur Leo	N. J.	1333 15th St. N. W.
DeStio, Daniel Stephen	Conn.	1812 K St. N. W., Apt. 505
Derwiler, William Chambough	Pa.	1209 K St. N. W.
Dobkin, Joseph Jacob	Va.	1426 Clifton St.
Eastlack, William Lloyd	D. C.	141 Uhland Terrace N. E.
Foley, Mildred Isabel	N. J.	1719 Eye St. N. W.
Fortgang, Harry King	N. Y.	1224 Mass. Ave. N. W.
Fox, Otis Levi	N. Y.	2215 Washington Circle
Friedman, Irving	N. Y.	2215 Washington Circle
Galati, Victor Lucius	N. Y.	4730 Illinois Ave. N. W.
Gary, Edward Thomas	N. Y.	1429 Rhode Island Ave.
Gentile, Lusiann Fiore	D. C.	203 6th St. S. E.
Gibson, Stuart Beatty	N. Y.	1233 15th St. N. W.
Gracco, Gaetano Thomas	Pa.	1719 Eye St. N. W.
Griffin, Edgar Deucher	N. Y.	1429 Rhode Island Ave.
Gruhl, Vincent Clarence	D. C.	35 Quincy Place N. E.
Heath, Alma Fife	Canada	1809 K St. N. W.
Henson, Rex Thomas	Idaho	1126 12th St. N. W., Apt. 83
Hudson, Harold Baird	Idaho	House Office Building
Jones, Benjamin Lewis	Pa.	1124 12th St. N. W.
Kardys, John Albert	Pa.	1345 13th St. N. W.
Katz, Max	Conn.	624 B St. S. W.
Katzman, Solie	D. C.	624 B St. S. W.
Keller, Ira Allen	D. C.	1600 10th St. N. W.
B. S., 1923, College of the City of New York	N. Y.	1208 K St. N. W.
Kelly, Fred Robert	Ohio	1342 13th St. N. W.
Kuder, Katherine	Pa.	2619 13th St. N. W.
Lavine, Oscar	D. C.	30 Sherman Circle N. W.
Liccosi, Emanuel	N. J.	1402 Mass. Ave.
B. S., New York University, 1926		
Lozano, Alfred Raymond	Texas	1013 13th St.
MacFadyen, Mary	N. C.	1937 G St. N. W.
Martello, Joseph Farachy	N. Y.	1429 Rhode Island Ave.
B. S., 1926, College of the City of New York		
Martinez, Felipe Luis	Cuba	1229 Mass. Ave.
Martone, Edward Jay	N. Y.	1221 K St. N. W.
*Mazzesano, Anthony Ferdinand	N. Y.	1404 I St. N. W.
McCarthy, Robert James	Pa.	1839 Eye St. N. W.
Meade, Spencer Vincent	D. C.	2629 24th St. N. W.
Merlo, Francis Aurelio	N. J.	1402 Mass. Ave. N. W.
Morroek, Samuel	N. Y.	53 D St. S. E.
Owen, John Manly	D. C.	47 Randolph Place N. W.
Paganelli, Americus Julius	N. Y.	614 18th St. N. W.
Paganelli, Hugo Raphael	N. Y.	614 18th St. N. W.
Parker, Howard Pope	D. C.	20 Channing St.
Petruska, Albert John	N. J.	1719 Eye St. N. W.
Poss, Gustave Lawrence	R. I.	1402 Mass. Ave.
Purpura, John Anthony	N. Y.	1407 Mass. Ave.
Rea, Courts Davidson	D. C.	3601 Lowell St. N. W.

\*Not in attendance throughout year.



Rosta, George A.  
Roel, Isidore  
Rothman, Herman  
Russumanno, Raymond Lawrence  
Sealen, John James  
Schreiber, Edwin Daniel  
Shaw, Joseph Tate  
Shwartzman, Aron  
Sosa, Augustin Arturo  
Speer, Alina Jane  
A. B., Univ. of Texas, 1913  
M. A., Geo. Wash. Univ., 1926  
Stoen, Bennett Adolph  
Sulb, Louis  
Tabb, Sam Lester  
Thomas, Evan  
Turner, Gary Estelle  
Vartebelian, Leo  
Vazquez, Rafael Munoz  
Vita, Frank Joseph  
Walkerstein, Harry  
Weber, George Samuel  
Weinstein, Max J.  
Whisman, James Joseph

Ky. 128 Maryland Ave. S. W.  
D. C. 1769 Linder Place  
Pa. 1342 13th St. N. W.  
N. J. 1229 Irving St. N. W.  
N. Y. 1426 Rhode Island Ave.  
D. C. 3907 Huntington St.  
N. C. 2757 Woodley Place  
D. C. 1528 O St. N. W.  
Panama 3225 Garfield St. N. W.  
D. C. 1740 18th St. N. W.  
Minn. Colonial Hotel  
N. Y. 1109 Buchanan St.  
D. C. East Falls Church, Va.  
Va. 1328 Mass. Ave.  
Mass. 1013 13th St. N. W.  
P. R. 1402 Mass. Ave.  
N. Y. 33 D St. S. E.  
N. Y. 607 Corcoran Courts  
D. C. 452 Newton Place N. W.  
D. C. 307 13th St. N. W.  
D. C.

SECOND YEAR

Algezer, Alfonso Leonard  
Alpher, Isidore Meyer  
A. B., George Washington Univ., 1926  
Baber, John Marion  
L. B., Georgetown Univ., 1922  
L. L. M., Georgetown Univ., 1923  
Boaz, Thenton David  
Borow, Henry  
Brusch, Warren Franklin  
Brown, Omar Jesse  
A. B., George Washington Univ., 1925  
Buckley, Frank Joseph  
Caras, Anthony  
B. A., George Washington Univ., 1926  
Gerone, Daniel Malcolm  
Cline, Reginald William  
A. B., Syracuse University  
Cohen, Nathan B.  
A. B., George Washington Univ., 1926  
Crisp, Edwin Stanton  
Cromer, J. Keith  
D'Angelo, John Vincent  
Dankberg, Julius  
B. S., Columbia University, 1926  
DeNatale, Frederick Joseph  
Eisenstein, Victor W.  
B. S., Univ. of Pittsburgh  
Eolowa, Ella Morran Austin  
A. B., George Washington Univ., 1915  
M. S., George Washington Univ., 1916  
Ph. D., George Washington Univ., 1923  
Flehr, Martin Carroll  
A. B., George Washington Univ., 1926  
Frankenthaler, Sylvan Alfred  
Fruchter, Harold  
A. B., George Washington Univ., 1925  
Garcia, David Ernesto  
Gard, Perry William  
Genon, Victor  
Gibson, John Paul  
A. B., Abilene Christian College, 1925  
Gilbert, Harry Albee  
A. B., George Washington Univ., 1926

N. Y. 1212 M St. N. W.  
D. C. 20 New York Ave. N. W.  
Miss. 1819 G St. N. W.  
Ky. 140 A St. N. E.  
N. Dak. 1120 12th St. N. W.  
Pa. 1130 13th St. N. W.  
N. C. 1227 Irving St. N. W.  
N. Y. 1118 11th St. N. W.  
D. C. 1345 I. St. N. W.  
N. J. 1234 Mass. Ave. N. W.  
Conn. 1120 13th St. N. W.  
N. J. 4730 Illinois Ave. N. W.  
D. C. 800 E St. N. E.  
Va. 1218 11th St. N. W.  
N. Y. 1216 16th St. N. W.  
N. Y. 1120 5th St. N. W.  
N. Y. 1332 Vermont Ave.  
Pa. 1126 12th St.  
D. C. 122 Willow Ave., Takoma  
Park, D. C.  
D. C. 1415 Girard St. N. W.  
N. Y. 1215 16th St.  
N. Y. Brunswick Apts.  
P. R. 1003 L St. N. W.  
Md. 15 W. Virginia St., Chevy  
Chase, Md.  
N. Y. 1118 11th St. N. W.  
D. C. 1623 25th Pl. S. E.  
Okla. 114 Senate Office Building

\*Not in attendance throughout year.

Gill, John B. S. (Chem.), Univ. of Idaho	Idaho	1526 17th St.
Gilfoy, Francis E.	Mass.	1328 Mass. Ave.
Goldenberg, Morris H. A. B., George Washington Univ., 1926	N. Y.	1402 15th St.
Goodman, Edgar Leonard A. B., George Washington Univ., 1926	D. C.	1518 Allison St.
Harmon, Robert Howe A. B., Millsaps College, 1915	D. C.	2633 Adams Mill Road
Heiges, Melville Lynwood A. B., George Washington Univ., 1926	D. C.	7223 Blair Road, Takoma Park, D. C.
Hess, Dowe Scott	D. C.	1007 New Hampshire Ave.
Heyl, Alice A. B., Cornell Univ., 1925	D. C.	2013 New Hampshire Ave.
Kessler, Leo A. B., George Washington Univ., 1926	N. Y.	Colonial Hotel
Levin, Isadore	D. C.	205 G St. N. W.
Lewis, Ned A.	N. Y.	1353 15th St. N. W.
Lieberman, Jess Joseph A. B., George Washington Univ., 1926	N. Y.	1402 15th St. N. W.
Litteral, Emmett Bryan A. B., George Washington Univ., 1925	Mo.	2105 Pennsylvania Ave. N. W.
Litvin, Philip	D. C.	121 L St. N. W.
Long, William E.	D. C.	2116 4th St. N. E.
Lowden, Henry M.	Md.	1335 15th St. N. W.
Marbury, John Bayne	D. C.	1016 16th St. N. W.
McCarthy, Leonard Daniel A. B., George Washington Univ., 1925	D. C.	219 T St. N. E.
McLain, George Henry A. B., George Washington Univ., 1926	D. C.	812 20th St. N. W.
McLain, John Edward A. B., George Washington Univ., 1926	D. C.	812 20th St. N. W.
Müller, Herman F. B. S., New York Univ., 1926	N. J.	Colonial Hotel
Missonellie, William	N. J.	1812 K St. N. W.
Morgan, Theron Harvard A. B., Ohio Univ., 1926	Ohio	1800 K St. N. W.
Moxon, Gail Fitch A. B., George Washington Univ., 1917	Minn.	1754 Q St. N. W.
Norell, Oscar A. B., University of Maine, 1923	Maine	1515 16th St. N. W.
Novick, Joel B. S., College of the City of New York, 1923	N. Y.	1219 K St. N. W.
Phillips, Gordon H.	D. C.	1420 Hopkins St. N. W.
Piazza, Ferdinand B. S., College of the City of New York, 1926	N. Y.	1213 M St. N. W.
Quinn, David B. S., Allegheny College, 1924	Ohio	1335 15th St. N. W.
Ryland, Charles P. Jr.	Va.	801 G St. S. W.
Seloff, Joseph Safran, Louis B. S., College of the City of New York, 1925	N. J.	1419 M St. N. W.
Sanchez, Luis Antonio Santemma, Esterino E. B. S., New York University, 1926	N. Y.	Y. M. C. A.
Schain, Morris Milton A. B., George Washington Univ., 1926	P. R.	1322 L St. N. W.
Schwarmann, John U.	N. Y.	1300 Vermont Ave. N. W.
Sena, Antoinette Marie Sena, Frank Wendall	N. Y.	2105 Eye St. N. W.
Shapiro, Nathan Shapiro, Samuel A. B., George Washington Univ., 1926	Va.	218 N. Alfred St., Alex- andria, Va.
Sherman, Benjamin Silverstein, Bernard	N. J.	1234 Mass. Ave. N. W.
Tabor, Blanche A. B., George Washington Univ., 1922	N. J.	1234 Mass. Ave. N. W.
Tackner, Louis A. B., Meredith College, 1917	N. Y.	2028 G St. N. W.
Tuckner, Louis A. B., Central H. S. (P. C. P. S.), 1921 Ph. G. Philadelphia College of Pharmacy, 1923	D. C.	3283 M St. N. W.
Washington, Daniel Boone A. B., George Washington Univ., 1926	Conn.	1436 Euclid St. N. W.
	N. Y.	1126 12th St. N. W.
	Va.	310 Columbia St., Cherry- dale, Va.
	Pa.	
	D. C.	800 K St. N. E.



Wigderson, Charles B.	N. Y.	Colonial Hotel
B. S., College of the City of New York, 1925		
Wilson, Nat Joseph	Conn.	1335 15th St. N. W.
A. B., George Washington Univ., 1926		

## THIRD YEAR

Alesi, John Charles	N. Y.	1215 M St. N. W.
Anderson, William Dunaway	Ala.	1800 K St. N. W.
B. S., University of Alabama, 1926		
Andrus, Lenard Milo	D. C.	123 C St. N. E.
B. S., Utah Agricultural College, 1920		
Bachrach, Louis Bernard	D. C.	2102 First St. N. W.
Belter, Abraham Max	Pa.	1315 M St. N. W.
Baty, William Copeland	Ala.	1800 K St. N. W.
Bonanno, Emil	N. Y.	1701 H St. N. W.
A. B., George Washington Univ., 1924		
Carlino, Charles Indelietto	N. Y.	1333 15th St. N. W.
Carpenter, Cedric Caesar	D. C.	3752 Kanawha St. Chevy Chase, D. C.
	Ky.	1420 R St. N. W.
Carr, Elma Bebee		
A. B., George Washington Univ., 1920		
A. M., George Washington Univ., 1921		
Courtney, Francis Xavier	N. Y.	2105 Penna. Ave. N. W.
A. B., George Washington Univ., 1925		
DeVore, Etta Louise	D. C.	4 Iowa Circle
Dewey, George	D. C.	2115 F St. N. W.
Dougherty, Daniel Dennis	N. J.	1800 K St. N. W.
Duffey, Depue Hazen	D. C.	1476 Newton St. N. W.
Edelstein, Isidore Stanton	N. Y.	1215 16th St. N. W.
B. S., College of City of New York, 1924		
Farrar, Frederic William	D. C.	2800 Columbia Road
Fermaglich, Harry Benjamin	N. Y.	1456 Euclid St. N. W.
Gordon, Leon Stuart	D. C.	321 N St. N. W.
Gorlin, David Oscar	N. Y.	1305 N St. N. W.
Hawfield, Clayton	N. C.	Connecticut Apts.
Hoechstetter, Stanton	Pa.	1315 M St. N. W.
B. S., University of Pittsburgh, 1925		
House, Hugh Osgood	Md.	College Park, Md.
A. B., University of Maryland, 1924		
Hummer, Francis Lee	S. Dak.	3165 18th St. N. W.
B. S. South Dakota Univ., 1926		
Impastato, David John	N. Y.	1214 K St. N. W.
A. B., Columbia Univ., 1925		
Jacobson, Samuel Alexander	N. Y.	1305 N St. N. W.
B. S., College of the City of New York, 1924		
Kelly, Thomas Joseph	Va.	320 S. Alfred St., Alexandria, Va.
Leonardo, Alexander	D. C.	724 Rock Creek Ch. Road
Lewis, Julius Evan	Va.	1742 Riggs Pl. N. W.
Lewis, Mark Larsen	Utah	13 2nd St. N. E.
Lopez, Jose Albert	P. R.	1215 M St. N. W.
Malerba, Benjamin Palmer	N. Y.	1271 Kye St. N. W.
McCoy, Carroll Alonzo	D. C.	2407 12th St. N. E.
A. B., George Washington Univ., 1925		
Meley, William Carey	D. C.	1825 18th St. N. W.
Mesnik, David	N. Y.	1717 N St. N. W.
B. S., College of the City of New York, 1924		
Milazzo, Peter John	N. Y.	1228 M St. N. W.
B. S., College of the City of New York, 1924		
Morse, Willis Brown	Pa.	911 22nd St. N. W.
Murray, Raymond Wilkins	D. C.	209 6th St. N. E.
A. B., George Washington Univ., 1925		
Myers, Brayton Omar	D. C.	22 9th St. N. E.
B. S., West Virginia University, 1926		
Nieklas, Edward Wilson	D. C.	1347 Perry Place N. W.
Ottenberg, Gilbert	D. C.	3465 14th St. N. W.
A. B., George Washington Univ., 1922		
A. M., George Washington Univ., 1924		
Petrie, Lester Marshall	D. C.	3921 5th St. N. W.
B. S., Westminster College		
Pintov, Israel		
Primakoff, Harry William	N. C.	

Proffia, Anthony Joseph	N. J.	1333 15th St. N. W.
Purse, Grace Guile	D. C.	3026 Kingle St. N. W.
A. B., George Washington Univ., 1924		
Rabinowitz, Milton Herbert	N. Y.	1215 16th St. N. W.
B. S., College of the City of New York, 1924		
Rincon, Victor	P. R.	1013 13th St. N. W.
B. S., West Virginia University, 1926		
Rossano, Thomas Alex.	N. Y.	1238 M St. N. W.
Rutkowski, Ignatius	D. C.	3414 14th St. N. W.
A. B., George Washington Univ., 1926		
Ryon, William Albert	D. C.	327 11th St. S. E.
Scandifio, Mario	N. Y.	1202 North Capitol St.
A. B., George Washington Univ., 1925		
Sonberg, Morris	N. Y.	2105 Eye St. N. W.
B. S., College of the City of New York, 1924		
Stokes, Walter Raymond	D. C.	713 19th St. N. W.
L. B., George Washington Univ., 1923		
Stretch, James Edison	Conn.	2121 New York Ave. N. W.
Vandenberg, George Joseph	Wash.	138 A St. N. E.
B. S., University of Washington		
Wildman, Thomas Albert	D. C.	1232 Euclid St. N. W.
Wilkinson, Richard Wallace	D. C.	4700 16th St. N. W.
A. B., George Washington Univ., 1925		
Zielger, Edwin Eugene	D. C.	3025 Cambridge Pl. N. W.

## FOURTH YEAR

Adler, Samuel S.	N. Y.	1210 Euclid St.
Belt, Norvell	D. C.	1907 G St. N. W.
A. B., George Washington Univ., 1924		
Bono, Joseph J.	N. J.	1332 Vermont Ave.
Breitbart, Lawrence	N. Y.	1221 N St. N. W.
Brownstein, Jacob M.	N. Y.	1725 17th St. N. W.
Cantrell, William C.	D. C.	1829 G St.
Ph. G. Pharm., Baylor Univ., 1918		
A. B., George Washington Univ., 1919		
Cart, Harry	N. Y.	Gallinger Municipal Hospital
Cherouchin, Robert	N. Y.	1118 13th St.
B. S., College of City of New York, 1922		
Chickering, Elizabeth E.	N. H.	1717 Riggs Place
A. B., George Washington Univ., 1923		
Colon, Julio E.	P. R.	Gallinger Hospital
A. B., George Washington Univ., 1924		
Phar. C., University of Porto Rico, 1915		
Colvin, Henry Lynn	D. C.	926 D St. S. W.
Corey, Wilbur L.	N. Y.	Cherrydale, Va.
A. B., George Washington Univ., 1923		
Cornwell, Abner M.	N. C.	1914 H St. N. W.
Creveling, Cyrus Robbins	Pa.	1531 P St. N. W.
Cushard, William G.	Ohio	1516 Newton St. N. E.
Durdham, Carey W.	N. C.	1914 H St. N. W.
Ellerson, Edmund M.	D. C.	2134 R St. N. W.
Erlain, Anthony Bartholomew	Pa.	1209 13th St. N. W.
Felps, Hugh E.	Tenn.	1521 P St. N. W.
B. A., George Washington Univ., 1925		
Finklestein, Abe S.	N. J.	1335 H St. N. W.
A. B., George Washington Univ., 1926		
Finkelstein, H. Max	Pa.	1205 N St. N. W.
Fradkin, William George	N. Y.	Gallinger Municipal Hosp.
Fred, Harry	N. Y.	1332 Eye St. N. W.
Gable, George R.	D. C.	Sibley Hospital
Gelber, Louis J.	N. Y.	621 19th St. N. W.
Ginsburg, Harry H.	D. C.	30 N St. S. W.
Gittleman, Morton	D. C.	664 Highland Ave., Takoma
		Pack, D. C.
Graeff, Earl W.	Pa.	1651 Hobart St. N. W.
Grass, Edward J.	D. C.	2024 Eye St. N. W.
A. B., George Washington Univ., 1924		
Greenman, Morris L.	N. Y.	1725 17th St. N. W.
Hersh, David H.	N. J.	1546 15th St. N. W.
Hillman, Fred C.	N. J.	939 K St. N. W.
A. B., Catholic University		



- Hixson, Clayton H.  
Horowitz, Douglas G.
- Jampel, John  
B. S., College of the City of New York, 1923
- Kahn, Bernard S.  
A. B., Columbia University, 1923
- Krause, Edward A.  
A. B., George Washington Univ., 1923
- Lawton, William H.  
B. S., Clemson College, 1918
- Levine, David R.  
Litwinsky, Joseph  
Malock, Leon J.
- Marmins, Abraham R.  
McDougall, Dan C.  
B. S., University of Idaho
- McQuarrie, Edward S.  
Mendelblatt, David I.  
B. S., University of Pittsburgh, 1926
- Minowitz, Samuel  
Moore, John F., B. S., Univ. of Md., 1923
- Morgenstein, Louis K.  
Moss, Fred A.  
A. B., Mercer, 1913  
M. A., Columbia, 1920  
Ph. D., George Washington Univ., 1923
- Nevins, Julius S.  
A. B., George Washington Univ., 1923
- Novagodsky, Samuel  
Ottman, Millard Frederick  
A. B., George Washington Univ., 1924
- Petrie, Edith M.  
B. S., Westminster College, 1923
- Preece, Alec A.  
A. B., George Washington Univ., 1925
- Reich, Jerome J.  
Reisinger, John C.  
Rogers, Sam L.  
A. B., 1923, George Washington Univ.
- Rosen, A. Nathaniel  
Rosenbaum, Louis  
Sarubin, Benjamin
- Sauber, Irving Edwin  
Seiler, Benjamin  
A. B., George Washington Univ., 1924
- Sette, Alfred J.  
Siskind, William  
B. S., College of the City of New York, 1922
- Smith, Edwin K.  
Smith, George H.  
Sommer, Abram E.  
Steinbach, Meyer  
Steinberg, Joseph  
B. S., College of the City of New York, 1923
- Straus, Francis X.  
Sutherland, Thomas G.  
B. S., Utah Agricultural College, 1923
- Talavera, Damasso  
VanNatta, Paul C.  
Weitz, Abraham  
A. B., George Washington Univ., 1923
- Weitz, Martin Lester  
A. B., George Washington Univ., 1923
- Wilson, John N.
- D. C. 333 Webster St. N. W.  
N. Y. Innapolis Apt., 1410 M St.  
N. W.  
N. Y. 1227 O St. N. W.  
N. Y. 1321 Kenyon St.  
Kana. 1322 Vermont Ave. N. W.  
S. C. 1526 17th St. N. W., Apt. 404  
N. J. 1223 O St. N. W.  
N. Y. 1113 K St. N. W.  
Pa. Laurel Sanitarium, Laurel,  
Md.  
Pa. 1223 O St.  
Idaho 1526 17th St. N. W.  
Pa. 1443 Masa Ave. N. W.  
N. Y. 608 7th St. S. W.  
D. C. Emergency Hospital  
N. J. 1221 N St. N. W.  
Va. 209 Va. Ave., Clarendon, Va.
- D. C. 1758 Lanier Place  
N. Y. 1221 N St. N. W.  
Ill. 1531 P St.  
D. C. 3921 5th St. N. W.  
D. C. 1511 22nd St. N. W.  
N. J. 1410 M St. N. W.  
D. C. 56 Randolph Pl. N. W.  
N. C. 1616 16th St. N. W.  
N. Y. 619 19th St. N. W.  
N. Y. 1512 Eye St. N. W.  
Md. 1906 N. Pulaski St., Balti-  
more, Md.  
N. Y. 1210 Euclid St. N. W.  
N. Y. 2030 Eye St. N. W.  
Conn. 1230 Irving St.  
N. Y. 1215 Vermont Ave.  
Ill. 2700 Q St.  
Va. Sibley Hospital  
N. Y. Rutland Courts  
Md. 2030 I St. N. W.  
N. Y. 2030 I St. N. W.  
D. C. 1223 H St. N. E.  
Utah 131 A St. N. E., Apt. 42  
P. R. 1800 Kenyon St.  
Mo. Tuberculosis Hospital  
N. Y. 2123 Eye St. N. W.  
N. Y. 2755 Macomb St.  
Md. 1228 Eye St. N. W.

## STUDENTS REGISTERED IN THE LAW SCHOOL 1926-27

Names of students who have withdrawn or graduated are indicated by stars; those who have entered since February 1, 1927, by daggers.

### CANDIDATES FOR THE DEGREE OF BACHELOR OF LAWS

#### FIRST YEAR

- Abramowitz, Morris, Conn.  
 \*Abramson, Herbert, D. C.  
     A. B., 1924; A. M., 1925, George Washington University  
 Ackert, Mary S., N. Y.  
 Albrecht, Karl J., Minn.  
     B. S., 1925, University of Minnesota  
 Aldrich, Irwin Dayton, Jr., S. Dak.  
     A. B., 1924, University of South Dakota  
 Amann, Rudolf Edward, D. C.  
     Ingenieur, 1922, Technische Hochschule of Vienna  
 Amisa, Bernard LaSalle, Va.  
 Anding, Henry Moore, Iowa  
 Andrus, Lucian Miller, D. C.  
     B. S., Michigan Agricultural College  
 Arick, Ned William, Ind.  
     A. B., 1926, Wabash College  
 Armstrong, Stuart Morton, N. Mex.  
 Avia, Samuel Brashear, W. Va.  
 Babcock, Earl, D. C.  
     B. S., 1923, George Washington University  
 Barber, Leight Fuller, Md.  
     A. B., 1926, Harvard University  
 Barley, J. Francis, Ill.  
 Barnes, Wilbur James, Md.  
     M. E., 1915, Cornell University  
 Barrow, Clarence R., Calif.  
 Baughman, Wilbur Norman, Fla.  
     B. S., 1926, University of Pennsylvania  
 Baylor, Joseph Wiley, W. Va.  
 †Beck, Kellogg Waldemar, Pa.  
     B. S., 1921, University of Pennsylvania  
 Beech, James Charles, Pa.  
 \*Behler, Theodore Fetherolf, D. C.  
 Bendheim, Leroy Schwarz, Va.  
 Bentley, Fay Louise, Ill.  
     Ph. B., 1918, University of Chicago  
 Box, John Calvin, Jr., Texas  
 Brand, Vance, Ohio  
 \*Brann, Raymond Ellis, Va.  
     A. B., 1925, University of Richmond  
 Brill, Isadore, D. C.  
 Britt, James Edward, N. C.  
     B. S. in M. E., 1924, North Carolina State College of Agriculture and Engineering  
 Brownard, Frederick Ulysses, Utah  
 \*Brown, Erma, Mo.  
     A. B., 1922, George Washington University  
 Brown, Harry Moore, N. C.  
 Bryan, Henry Eugene, Ohio  
 Burr, Raymond O., D. C.  
 Campbell, Marion, D. C.  
 Carey, Stephen Jay, D. C.  
 Carpenter, Alva, Ind.  
     B. S., 1925, Northwestern University  
 \*Carter, Henry, Mass.  
     A. B., 1917; A. M., 1920, Yale University  
 Casteel, Elizabeth Gall, D. C.  
 Cavanaugh, Ernest Denning, N. C.  
     A. B., 1921, Duke University; A. M., 1926, George Washington University  
 †Centenera, Angel, P. I.  
 Cherbonnier, Andre Victor, Md.  
     Graduate, U. S. Naval Academy  
 Clark, Rollin Marlimestone, N. J.  
     B. S. in M. E., 1920, University of Pennsylvania  
 Clegg, Rus Lawton, Utah  
     B. S., 1923, Agricultural College of Utah  
 Coffin, Seth Charles, Ind.  
     B. S., 1926, Indiana University  
 Cohen, Louis Franklin, D. C.  
 Cohen, Raymond W., Md.  
     B. E. in E. E., 1926, Johns Hopkins University  
 \*Colding, Vera Adele, N. Y.  
     A. B., 1916, Vassar College  
 †Cole, John William, D. C.  
 Conner, Norman Hampton, D. C.  
     B. S., 1924, University of Virginia  
 Cook, Anita Marie, D. C.  
     A. M., 1925, George Washington University  
 Cox, Elizabeth M., D. C.  
 Crouter, Earl Clinton, Wyo.  
 †Crum, Harry Watson, Pa.  
 Cullen, William G., Okla.  
     A. B., 1916, University of Oklahoma  
 Cunningham, Norman Jay, Pa.  
 Davis, Carl Louis, W. Va.  
 †Davis, Jack Hayne, Jr., S. C.  
     B. S., 1925, The Citadel  
 Davison, Clarence Clarke, N. J.  
 Day, Clifford Theron, D. C.  
     B. S., 1915, Middleburg College  
 Dennis, Milton L., Md.  
 Dinwoodey, Charles Dean, Idaho  
     A. B., 1922, University of Utah  
 †Dodds, Laurence Briggs, Colo.  
     B. S., 1925, University of California  
 \*Domigan, Horace Wynkoop, Ohio  
 Doyle, James Henry, N. Y.  
     Graduate, 1920, U. S. Naval Academy  
 †Dressler, Maxwell, Conn.  
 Ekler, Clarence May, D. C.  
 \*Ely, Nathaniel, N. J.  
 Esch, John Henry, Wis.  
     A. B., 1926, University of Wisconsin  
 Esch, Mark Fidal, Wis.  
     A. B., 1926, Hamilton College  
 \*Feldt, Robert Bryan, Tenn.  
 †Ferguson, Milton Carr, W. Va.  
     A. B., 1924, West Virginia University



- Ferguson, Walter S., Kans.  
Fessenden, John Stirling Spaulding, Ohio  
A. B., 1926, Ohio Wesleyan University  
Fichter, Ralph John, Ind.  
Fife, Harold D., Utah  
Finnegan, George Bernard, Calif.  
Graduate, 1924, U. S. Military Academy  
Flaherty, George Allen, Md.  
†Ford, Francis, Mass.  
Bachelor of Journalism, 1922, University of Missouri  
\*French, John Alversen, Mass.  
Ph. B., 1925, Brown University  
Futterer, Charles, D. C.  
Geiger, Clarence Edward, D. C.  
\*Gibson, Charles Higgins, W. Va.  
Gilbert, Morgan MacMurrongh, D. C.  
Goldberg, Morton George, D. C.  
Golub, Morris, N. Y.  
Goodson, Orr, Mo.  
\*Gould, B. Ralph, Kans.  
A. B., 1923, University of Kansas  
Grimes, Harlan Earl, Okla.  
Gross, Charles Ernest, D. C.  
\*Groves, Harry Hunt, Mass.  
Grubbs, Daniel Dean, D. C.  
Ph. B., 1926, Brown University  
Gundry, John Murton, Ohio  
R. S., 1918, Harvard College  
Hafen, Orval, Utah  
A. B., 1925, Brigham Young University  
\*Hagan, Charles Banner, Tenn.  
A. B., 1926, Emory and Henry College  
Hagerty, Margaret Katherine, D. C.  
A. B., 1926, Trinity College  
†Hall, Clyde Webster, Ind.  
B. S. in M. E., 1925, Purdue University  
\*Hall, David Edmon, Ind.  
Hansen, Willard Milton, Utah  
Harrell, Rogers Edward, D. C.  
\*Hassell, Charles, N. C.  
Hasskari, Augustus Immanuel, Nebr.  
Hatfield, Ewell Warren, W. Va.  
Hayes, Jack, D. C.  
A. B., 1926, George Washington University  
Henninger, Miles, Pa.  
B. Sc. in Ch. E., 1923, Bucknell University  
Hodges, Louis Ogle, D. C.  
Holland, Mary Josephine, Mass.  
A. B., 1922, Tufts College  
Holmes, Thomas James, Md.  
B. S., 1924, University of Maryland  
Holther, David Key, Utah  
Holton, Linville Moran, W. Va.  
A. B., 1915, West Virginia University  
A. M., 1917, Columbia University  
\*Hottel, Gay Llewellyn, D. C.  
A. B., 1926, George Washington University  
Houghton, Joseph York, Mass.  
B. S., 1926, Massachusetts Institute of Technology  
†Howe, Ramon Raphael, Ind.  
B. S. in E. E., 1925, Purdue University  
†Hufford, Harold Emery, Ind.  
†Hutchison, Earl Wedderburn, Pa.  
B. S., 1916, University of Wisconsin  
Ingls, Albert Laurens, Miss.  
James, Leland Prierson, D. C.  
A. B., 1926, George Washington University  
†Janson, Irvin Bertle, Utah  
†Johnson, Edward Claude, Va.  
A. B., 1924, William and Mary College  
†Johnson, Stanley Wallace, Utah  
Jones, William Theron, Utah  
Jordan, Alexander Dillon, N. J.  
Kail, Benjamin Morton, Pa.  
Keeseker, Ward W., W. Va.  
A. B., 1923, A. M., 1924, George Washington University  
Kemp, Bolivar Edwards, Jr., La.  
King, Karl Vernon, Utah  
Kinney, Alfred Adolphus, Idaho  
A. B., 1921, University of Idaho  
Knapp, Lawrence A., S. Dak.  
A. B., 1925, Yakaton College  
Lackmann, Luella Irene, D. C.  
A. B., 1919, Cornell University  
LaFont, Harold Mathews, Mo.  
Lamson, Robert Irving, Vt.  
B. S., 1926, University of Vermont  
Langshaw, Gertrude, Mich.  
†Lassagne, Theodore Hawley, Ill.  
Laughlin, Charles Vail, Iowa  
LeClereq, Frederic Kellogg, S. C.  
A. B., 1916; A. M., 1921, Oxford University  
Lee, Robert Edward, D. C.  
Leighey, Robert A., Ohio  
†LeRoy, Claude, N. Y.  
E. E., 1924, Cornell University  
Levine, Samuel, D. C.  
Lewis, Raymond Daniel, D. C.  
Graduate, 1923, U. S. Naval Academy  
Lockwood, Katharine Robb, D. C.  
Lopeman, Charles Theodore, Ohio  
\*Loucks, Buel Franklin, Ind.  
A. B., 1925, Indiana University  
†Mahoney, Charles E., Mass.  
Martin, Charles Franklin, S. C.  
B. S., 1910, College of Charleston  
Graduate, 1914, U. S. Naval Academy  
Mathews, Hugh Togo, Md.  
Mayfield, John S., Tex.  
\*Mayfield, Lawrence William, Mo.  
Milans, Albert Joseph, D. C.  
Milensky, Joseph D., Conn.  
Milwee, R. Frank, D. C.  
†Mitchell, Howard William, D. C.  
†Mobley, Radford Ellis, Ala.  
A. B., 1926, University of Alabama  
†Mong, Clair Burket, Pa.  
Morris, Clifton Edward, Md.  
Morris, Wayne Howard, Ind.  
Morrow, Charles Robert, Ky.  
Morse, Excellenza Leah, Vt.  
A. B., 1920, University of Vermont  
B. S., 1922; M. S., 1923, Massachusetts Institute of Technology  
\*Morse, Wilbur, Pa.  
A. B., 1901, Harvard College  
\*Mowbray, Margaret Rider, Md.  
A. B., 1925, Mount Holyoke College  
Muir, Joseph Johnstone, Md.  
Mullee, Raymond G., N. Y.

- McClellan, Irvin Richard, Ind.  
 McCormick, Homer L., Okla.  
 McCrea, John Livingstone, Mich.  
 Graduate, 1915, U. S. Naval  
 Academy  
 †McIntyre, Alfonso Everett, N. C.  
 McKeena, William Thomas, Pa.  
 \*Nalla, Earl Melville, D. C.  
 Norvell, Grace Rebecca, Mo.  
 A. B., 1924, George Washington  
 University  
 O'Brien, Ruth, D. C.  
 B. Sc., 1914, and M. A., 1915, Uni-  
 versity of Nebraska  
 O'Connor, Joseph Louis, D. C.  
 A. B., 1926, George Washington Uni-  
 versity  
 O'Reilly, Walter Towle, Colo.  
 Graduate, 1919, U. S. Military  
 Academy  
 \*Osmond, Harvard, Utah  
 †Patterson, Donald Gills, N. H.  
 Pennoyer, Ralph Gilbert, Calif.  
 Person, Benjamin Vail, D. C.  
 Peterson, Eric George, Kans.  
 \*Pine, James Cone, Md.  
 A. B., 1926, Yale College  
 Pisarra, Angelo Marion, N. Y.  
 Ch. E., 1926, Rensselaer Poly-  
 technic Institute  
 †Pitthan, John Marvin, N. Y.  
 Pollard, Charles Phillips, Va.  
 B. S., 1925, College of William and  
 Mary  
 Potter, James Davis, N. C.  
 Prevost, Marcel Mallet, D. C.  
 Preinkert, Alma Henrietta, D. C.  
 A. B., 1916, George Washington Uni-  
 versity; A. M., 1923, University of  
 Maryland  
 †Pugh, Edward Lawrence, D. C.  
 B. S., 1925, University of Maryland  
 Rabinowitz, Milton, N. Y.  
 \*Ramsey, Osman, D. C.  
 †Rangeley, Joe Ware, W. Va.  
 Rapp, Leslie Manfred, Iowa  
 Redford, Carroll Morris, Ky.  
 Reed, Albert C., D. C.  
 B. S., 1922, University of Delaware  
 Reese, Roy Dahlquist, Utah  
 Reichmann, Owen G., Utah  
 B. S., 1924, University of Utah  
 Rittenberg, Arthur Adolph, S. C.  
 Roach, Jessie Dean, Ill.  
 A. B., 1924, George Washington  
 University  
 Robbin, Barney Merton, D. C.  
 Robinson, Lewis, N. Y.  
 B. S., 1925, Union College  
 Rogers, Otto Larkin, Miss.  
 Romney, Junius Stowell, Utah  
 Rosenburg, Everett Reynolds, N. Y.  
 E. E., 1924, Rensselaer Institute of  
 Technology  
 †Rowe, John Philip, Mont.  
 A. B., 1927, University of Michigan  
 Sakis, George Panagioton, D. C.  
 Saks, Theodore, D. C.  
 †Sanders, Gwynn, Ohio  
 \*Sanders, Warrington Raphael, D. C.  
 B. S., 1923, University of Maryland  
 Schimmel, Joseph, Md.  
 B. S. in Ch. E., 1923, Carnegie In-  
 stitute of Technology  
 Schuepp, Chester Clyde, D. C.  
 Schulze, Richard Paul, D. C.  
 \*Sears, William Joseph, D. C.  
 Selvey, William Harrison, W. Va.  
 Shapiro, Arthur, Md.  
 B. Eng., 1921, Johns Hopkins Uni-  
 versity  
 Shaw, Edwin Brenton, N. C.  
 A. B., 1926, University of North  
 Carolina  
 Simons, Macon McCorkle, N. C.  
 \*Simonson, Joseph Clifford, Minn.  
 A. B., 1925, St. Olaf College  
 †Smith, George W. G., Calif.  
 Snaveley, William Arthur, D. C.  
 B. S., 1907, Iowa State College  
 Speer, Larkin, Tex.  
 Spelman, William Paul, D. C.  
 B. S. in Ch. E., 1923; A. B. in Chem.,  
 1925, George Washington Uni-  
 versity  
 Steenrod, Virginia Ruth, Ohio  
 Stein, David, D. C.  
 Stubbs, Vincent Gilpin, Pa.  
 Thompson, Edgar, Mo.  
 B. S., 1891; M. S., 1895; A. M., 1897,  
 Drury College; M. D., 1893, St.  
 Louis University  
 Thompson, Edgar Kirby, S. C.  
 A. B., 1925, The Citadel  
 †Thompson, Samuel Craig, Ohio  
 A. B., 1916, Miami University, Ox-  
 ford, Ohio  
 Thomson, Earl Henry, Mass.  
 †Titeomb, Oliver Stanley, Mass.  
 Titus, Harold Hill, Wis.  
 Towles, Francis Joseph, S. C.  
 Townsend, Russell Harrison, Md.  
 \*Tracy, Thomas Carroll, Mass.  
 A. B., 1924, University of Michigan  
 \*Unger, Vernon William, Ill.  
 \*Viothmeyer, Henry Paul, Ohio  
 Weigle, George Eustace, Ind.  
 Wheaton, Clare Alan, D. C.  
 White, John Turner, D. C.  
 †Whitehead, Katherine Bonneau, D. C.  
 A. B., 1926, Wellesley College  
 Whitehouse, Joe George, N. Mex.  
 \*Whitlock, Douglas, Ind.  
 B. S., 1926, University of Indiana  
 Will, John Geoffrey, N. Y.  
 Willey, Emerson Cannon, Utah  
 A. B., 1922, University of Utah  
 \*Williams, Otis Lee, Va.  
 Williams, Sylvan Harold, Ohio  
 Williford, Imogene, Miss.  
 \*Wingfield, Cecil Gilbert, D. C.  
 \*Yates, Dwight Randolph, W. Va.  
 Yochelson, Irving Bernard, D. C.  
 York, Brewster Vance, N. C.  
 Zaska, Allen Sidney, Va.  
 Zeydel, Walter Hugh, N. J.



## SECOND YEAR

- \*Acce, Alfred, D. C.  
 Adams, John Quincy, Okla.  
 Advincula, Eleuterio A., P. E.  
 A. B., 1925, University of Wisconsin  
 Allen, Walter Rudolph, N. Y.  
 Allison, Raymond Dean, Utah  
 Armstrong, Frank, Utah  
 Athey, Herndon Rine, W. Va.  
 Balagan, Raymond, Mass.  
 Bailey, Joseph Pennington, D. C.  
 Bassler, William Shirley, D. C.  
 A. B., 1923, George Washington University  
 Beasley, Kern Grant, Ind.  
 A. B., 1924, Indiana University  
 Bender, Leo, Md.  
 A. B., 1924, George Washington University  
 Bentley, Jordan Ruthven, D. C.  
 Blackman, Harold Stephen, Mo.  
 A. B., 1922, Missouri State Teachers College  
 Blackmar, Lawrence James, N. Y.  
 A. B., 1918, Syracuse University  
 Bogorad, Samuel, D. C.  
 Bowden, Bernice Saunders, Va.  
 Brauner, Ralph Herman, D. C.  
 B. S. in M. E., 1924, George Washington University  
 †Brewster, Vernon Harcourt, Ill.  
 B. S., 1923, Northwestern University  
 Brush, Edward, Conn.  
 B. S., 1924, Yale University  
 Brywn, Lynn H., Kans.  
 A. B., 1923, University of Kansas  
 Brown, Thomas Hayward, Miss.  
 Brown, William Bradl, D. C.  
 Bruner, Kenneth Henthorne, Indiana  
 A. B., 1926, George Washington University  
 †Bryant, Sarah Catherine, Ky.  
 Burns, Clarence Franklin, N. C.  
 Callender, John Wesley, D. C.  
 Cannon, John Quayle, Jr., Utah  
 Carruth, William Theron, Utah  
 Carter, Rolla, Ohio  
 B. E. E., Ohio State University  
 Cartwright, Robert Burns, N. Mex.  
 A. B., 1923, University of New Mexico  
 Cusanova, Arturo Ynacencio, D. C.  
 B. Sc. in C. E., 1922, Carnegie Institute of Technology  
 Castle, James Manderson, Jr., Pa.  
 B. S. in Chem., 1924, University of Pennsylvania  
 Chandler, William Snyder, D. C.  
 Clark, Stanley Aubrey, Okla.  
 Coble, Adlai Stevenson, D. C.  
 M. E., 1916, Cornell University  
 Cogswell, Richard Upton, N. H.  
 Ph. B., 1925, Vermont University  
 Cohen, Daniel George, D. C.  
 B. S. in M. E., 1924, Tufts College  
 Cole, Felix, D. C.  
 A. B., 1910, Harvard University  
 Coleman, Beverly Mosby, D. C.  
 Graduate, 1922, U. S. Naval Academy  
 Congdon, Richard Gates, N. J.  
 A. B., 1925, George Washington University  
 \*Cotton, Norris Henry, N. H.  
 Ph. B., 1921, Wesleyan University, Connecticut  
 Cowley, Samuel P., Utah  
 B. S., 1925, Utah Agricultural College  
 \*Crews, Joseph Sharrell, S. C.  
 Crews, Maurice Augustus, D. C.  
 A. B., 1926, George Washington University  
 Crofts, Leroy Arthur, Wyo.  
 Culbertson, Paul Trauger, Kans.  
 Ph. B., 1923, Yale University  
 Cummings, Gayle Taylor, Va.  
 Daulin, Meredith M., Mo.  
 Dillaway, Robert Gardiner, Mont.  
 A. B., 1923, University of Michigan  
 Dimon, Philip Worthington, D. C.  
 A. B., 1924, Johns Hopkins University  
 Dingwell, Paul Douglas, D. C.  
 Graduate, U. S. Naval Academy  
 Donaldson, Kenneth, D. C.  
 C. E., 1924, Lehigh University  
 Dunham, Paul Overing, Wis.  
 B. S., 1924, University of Wisconsin  
 Durand, Harrison Fisher, S. Dak.  
 A. B., 1926, Yankton College  
 Earl, Donald Edward, Minn.  
 B. S., 1924, M. S., 1925, University of Minnesota  
 Earnehan, Lois, Pa.  
 A. B., 1915, Mt. Union College  
 Elliott, Charles, Va.  
 Elliott, Henry Harold, D. C.  
 B. S. in Econ., 1920, University of Pennsylvania  
 Entiken, Samuel Everett, D. C.  
 Farmer, Harold Osburn, Ill.  
 Farnum, Edward Shippin Watson, Jr., D. C.  
 Flaherty, Leo Edward, Ind.  
 B. S., 1924, Rose Polytechnic Institute  
 Flint, Joseph Howard, N. Y.  
 B. Chem., 1920, Cornell University  
 Fredericks, Harold Newman, Minn.  
 Freebairn, Melvin, D. C.  
 B. S., 1925, University of Utah  
 Friedrich, Charles, N. Y.  
 Gallo, Anthony James, Del.  
 B. S., 1923, University of Delaware  
 Gary, Edwin Bernard, Md.  
 Geisler, Robert Henry, Calif.  
 \*Gappert, Carl Frank, Md.  
 E. E., 1922, University of Dayton  
 Gibson, Ernest William, Va.  
 A. B., 1923, Norwich University  
 Gilliland, Carl Glenn, D. C.  
 Grad., 1912, U. S. Naval Academy  
 Gladstein, Alfred Martin, Okla.  
 Goodman, Guy H., Md.  
 Ph. B., 1911, Yale University  
 Goss, Elmer Joseph, Conn.  
 B. S. in E. E., 1925, Yale University  
 Graham, James Joseph, D. C.  
 Graduate, U. S. Naval Academy  
 Grossman, Raymond Mondell, Ill.

- Groton, Edwin Ralph, Md.  
A. B., 1925, Western Maryland College
- †Grove, Robert Calhoun, D. C.  
Haig, Robert Van Rensselaer, D. C.  
B. S., 1921, University of Maryland
- Hanaway, William Lippincott, D. C.  
B. Sc., 1921, Rutgers College
- Hanna, Matthew Elting, Jr., D. C.  
A. B., 1925, Yale University
- Hannigan, Isabell, Mich.  
Hanscom, LeRoy, Calif.  
A. B., 1924, University of California
- Harper, Hoyt Benjamin, Ill.  
Harris, Floyd Mandeville, Pa.  
B. S., 1924, Carnegie Institute of Technology
- Hartman, Douglas William, Wis.  
A. B., 1925, George Washington University
- Haughey, John Theodore, Iowa  
Hayes, Charles David, D. C.  
Hedgecock, Leland Stanford, Tenn.  
B. A., 1924, University of Tennessee
- Henderson, Curtis Carl, Miss.  
B. S., 1924, Mississippi Agricultural and Mechanical College
- Herndon, Neal Norton, Ala.  
Herold, Eugenia Pearle, W. Va.  
A. B., 1926, University of Southern California
- Herrstrom, Charles Edwin, Mass.  
B. S. in Ch. E., 1924, Massachusetts Institute of Technology
- Heth, Eva Virginia, D. C.  
A. B., 1892; A. M., 1893, University of Virginia
- Hill, Harry Duremus, Ind.  
Hill, Sherman Russell, D. C.  
Hoaglund, Cyrus Vincent, Minn.  
Holt, Elmer Cornelius, N. Dak.  
Hoxie, John Alfred, Mass.  
A. B., 1925, Massachusetts Institute of Technology
- Hrdlicka, Charles Robert, Nebr.  
A. B., 1926, University of Nebraska
- Hubachman, Albert, N. J.  
Hudson, Ralph Hoskins, D. C.  
Graduate, 1922, U. S. Naval Academy
- Huff, Fannie Mae, Tenn.  
A. B., 1911. A. M., 1916, Carson and Newman College
- Hyatt, Lena Rose, D. C.  
James, Sidney, N. Y.  
B. S., 1924, College of the City of New York
- Johnston, Charles McClean, Mich.  
A. B., 1924, Wabash College
- Johnston, Victor Angus, N. Dak.  
Johnston, William Gordon, Iowa  
B. A., 1925, University of Iowa
- Joyce, Hannibal Neal, Va.  
Kaufman, Hyman Paul, N. Y.  
M. E., Brooklyn Polytechnic Institute
- Kaufmann, Joseph Alexander, Va.  
A. B., 1926, George Washington University
- Ketcham, John Clark, Jr., Mich.  
Kilburn, Henry Thomas, D. C.  
B. S., 1916, Columbia University
- Kirkland, James Robert, Del.  
†Kliebenstein, Donald Black, Iowa  
Klinge, Henry John, D. C.
- Knight, Geoffrey, D. C.  
B. S., 1920, Cornell University
- Koener, David Randolph, Va.  
Kops, Paul Franklin de Bruyn, N. Dak.  
Kramer, Samuel Harry, Mass.  
Kreek, Louis Francis, Mo.  
Lachowicz, John Stanley, Conn.  
B. S., 1922; M. A., 1923, Wesleyan University
- LaRosa, Willard Edoin, Ill.  
Lawrence, Thomas Linwood, D. C.  
Leasure, Charles Edward, D. C.  
B. S., in C. E., 1921, Catholic University
- Levin, Nathan, N. J.  
M. E., 1925, Lehigh University
- Lewis, James Taylor, N. C.  
Lewis, Ollie Lee, Ky.  
A. B., 1917; M. Sc., 1920, George Washington University
- \*L'Heureux, Herve Joseph, N. H.  
A. B., 1925, George Washington University
- Lightman, Jacob Ben, D. C.  
Little, Leroy, Wis.  
B. S. in Eng., 1924, University of Minnesota
- Long, Lyman Lee, Md.  
A. B., 1924, Western Maryland College
- Lovett, John Willis, D. C.  
Lovewell, Newton Nehemiah, Wis.  
Luber, Harold Edgar, D. C.  
Lundling, Franklin Jerome, D. C.  
Lutkiewitz, Vincent Alexander, D. C.  
Lyman, Albert, Idaho  
Lynn, Marshall Hancock, D. C.  
B. S., 1922, University of Virginia
- Lyons, Robert Donlan, S. Dak.  
A. B., 1921, University of Wisconsin
- Mallett, Emery Longfellow, Me.  
A. B., 1923, Bowdoin College
- Manian, Jacob Arazo, Mass.  
S. B., in E. E., 1924, Massachusetts Institute of Technology
- Manship, Winfield Scott, Conn.  
A. B., 1886, Wesleyan University;  
B. D., 1889, Ph. D., 1891, Yale University
- Manuelian, Aram Dee, D. C.  
B. S., 1920, University of Vermont
- Marinelsstein, Nathan, Ohio  
B. S. in Chem. Eng., 1922, Case School of Applied Science
- \*Mattingly, Harold Webster, D. C.  
Merritt, Lewis Griffith, D. C.  
B. Sc., 1917, The Citadel
- Miller, Helen Willett, Mich.  
A. B., 1923, University of Michigan
- Miller, Ira Palmer, Pa.  
Minnis, Philip Allen, Ind.  
B. S. in M. E., 1925, Rose Polytechnic Institute
- †Misell, Francis Joseph, Ala.  
A. B., 1926, University of Alabama
- \*Montstream, John Martin, Conn.  
B. S., 1921, Carnegie Institute of Technology
- Moore, Morrow Harris, D. C.  
A. B., 1925, George Washington University
- Moore, Theodore Roosevelt, Okla.  
Moorhead, Ruth, Pa.  
B. S., 1922, Simmons College



- Moule, Maurice Milton, Mich.  
A. B., 1922, University of Michigan
- Mushake, William Ira, D. C.  
B. S. in C. E., 1923, George Washington University
- McCormack, Dwight Lynn, Ill.  
McGregor, Thomas Henry, Jr., La.  
McPherson, Richard Karens, Mo.  
A. B., 1926, George Washington University
- Neilaon, Preston Matt, Utah  
B. S., in Commerce, 1925, Agricultural College of Utah
- Nelson, Clarence James, Iowa  
Nervo, Luis Padilla, D. C.  
Nevisser, Arnold Harry, D. C.  
Neville, George Waddell, Miss.  
A. B., 1923, University of the South
- Neyman, Fanny, Mont.  
Nicholson, John Reed, Jr., Del.  
B. S. in E. E., 1924, University of Delaware
- Nileon, Ralph Gilbert, Mass.  
Nixon, Otis Edwin, Okla.  
Nordstrom, Arthur Hugo, D. C.  
Packer, Earl LeNair, Utah  
A. B., 1921, George Washington University
- Palmer, James Charles, D. C.  
Parker, Clarence LeRoy, Jr., D. C.  
A. B., 1924, Princeton University
- Parker, Norman Douglas, Jr., D. C.  
E. E., 1923, Lehigh University
- Parkinson, Edmund West, Idaho  
B. S., 1924, Brigham Young University
- Parrish, Charles Jefferson, D. C.  
Graduate, 1913, U. S. Naval Academy
- \*Payne, Donald, E., D. C.  
B. S., in Ch. E., 1922, University of Idaho
- Phelps, Marian Brooks, Ohio  
A. B., 1923, Oberlin College
- Plumley, Allan Rudolph, Vt.  
B. S., in Chem., 1923, Norwich University
- Porter, Clarence Henry, D. C.  
M. E., 1925, Lehigh University
- Porterfield, Roy Albert, Mo.  
B. S., 1911; M. S., 1913; C. E., 1916, University of Kansas
- Quinn, Thomas Wallace, Ga.  
B. S. in C. E., 1923, Georgia School of Technology
- Ray, Christopher A., R. I.  
Rhodes, Cooper Burnett, Md.  
A. B., 1923, Dartmouth College
- Rich, Moses Logan, Utah  
B. S., 1925, Utah Agricultural College
- Robertson, John Reynolds, D. C.  
Russell, Ernest, Va.  
A. B., 1923, Emory and Henry College
- Rutheiser, Paul, N. Y.  
Safford, Truman Sunderland, Mich.  
B. A., 1924, Antioch College
- Sammons, Charles McKinley, D. C.  
Sandberg, Enos, Utah
- Seymour, John Lawrence, N. Y.  
B. S. in Ch. E., 1923, University of Maine
- Shaw, Dorothy, Calif.  
B. A., 1924, Pomona College
- Shields, Theodore Thomas, D. C.
- Shreve, Charles Everett, D. C.  
Shreve, Richard Southerne, Jr., Va.  
B. S. in M. E., 1924, George Washington University
- Silverman, Joseph Melvin, D. C.  
Simonda, Robert McClellan, D. C.  
B. S., 1924, Massachusetts Institute of Technology
- †Sinsel, Rupert Alston, W. Va.  
†Skane, Peter Emanuel, Minn.  
Smith, Paul Russell, Okla.  
Sonnekalb, William Frederic, Jr., N. J.  
B. B., 1925, Massachusetts Institute of Technology
- Souther, George Harold, Mass.  
Spaulding, Augusta de Laguna, D. C.  
A. B., 1912; A. M., 1913, University of California
- Spector, Saul Edward, Pa.  
B. S. in Ch., 1922, University of Pennsylvania
- Stanton, William Henry, D. C.  
A. B., 1925, George Washington University
- Stewart, Isaac Milton, Calif.  
Stoutenburgh, Paul Prosser, D. C.  
A. B., 1923, Johns Hopkins University
- Strickland, George Henry, Mass.  
Suran, Raymond Cade, Okla.  
Swecker, John Preston, Va.  
Tarleton, Gilbert Plympton, Mass.  
Tech, Ruth Catherine, Ind.  
Tillema, John Albert, D. C.  
A. B., 1914, Hope College; A. M., 1917, University of Michigan; Ph. D., 1924, Washington University
- Torrey, Morgan Caywood, D. C.  
Trimble, Robert Samuel, Jr., Fla.  
Graduate, 1920, U. S. Military Academy
- Underwood, Richard Laskey, D. C.  
Untiedt, Frederick Henry, N. J.  
B. S., 1922, and S. M., 1924, Massachusetts Institute of Technology
- VanAlstine, Sewell, Iowa  
A. B., 1926, State University of Iowa
- \*Van Deusen, William Elmer, Calif.  
Vernon, Weston, Jr., Utah  
B. S., in Commerce, 1925, Agricultural College of Utah
- Wade, William James, Ill.  
Walker, Charles Lewis, D. C.  
Wallace, Lawrence Allison, Idaho  
B. A., 1923, University of Idaho
- Ward, Charles Allen, Tenn.  
B. S. in C. E., 1912, University of Tennessee
- Wasmuth, Karl Edward, N. Y.  
Watkins, Harley Alvin, Ohio
- \*Weisk, Magnus, Minn.  
A. B., 1923, St. Olaf College
- \*Wemple, Edwin Copley, D. C.  
Whitney, Byrle Albert, Iowa  
B. A., 1923, University of Iowa
- Whitson, William Warren, D. C.  
Willey, Harold Brainerd, D. C.  
Wiss, Robert Hilary, D. C.  
\*Wood, John Sumner, Mass.  
B. S., 1925, Harvard College
- Wyson, William Prentiss, W. Va.  
Young, Walter Hempstone, D. C.  
B. S., 1924, University of Maryland
- Younger, Charles Donald, Calif.  
Youngman, Albert Stanley, N. Y.

## THIRD YEAR

- \*Akers, Richard Harold, Md.  
B. S., 1912, University of Virginia;  
B. C. S., 1917, New York University
- Allen, Edgar Poe, Pa.  
Babbington, Thomas A., D. C.  
Bailey, Roy Wells, Md.  
A. B., 1916, Syracuse University
- Barney, Ralph Andrew, Okla.  
\*Beale, Edward Belknap, D. C.  
C. E., 1923, Lehigh University
- Berkowits, Louis, Del.  
B. S., in Ch. E., 1922, University of Pennsylvania
- Berry, John Marshall, Ky.  
\*Birka, John Gouge, Ill.  
A. B., 1922, James Milliken University
- Bever, Ellis Dorwin, Kans.  
Blake, George Robert, Iowa  
Bland, Irving Jay, N. Y.  
A. B., 1926, Cornell University
- \*Bolin, John Wise, Ohio  
Broder, Simon, N. Y.  
M. E., 1924, Cornell University
- Bushong, Edward Stuart, Md.  
B. A., 1924, Davis and Elkins College
- Casey, Marlin Scott, Kans.  
Chaney, Donald John, D. C.  
Chesley, Ralph Milton, Iowa  
B. S., 1926, Syracuse University
- Chipman, Lyman M., Utah  
Claggett, John Francis, Md.  
A. B., 1923, University of Maryland
- Colby, Joseph William, Iowa  
Cullner, Cranfill H., Tex.  
Colton, Hugh Wilkins, Utah  
Conlyn, Margaret, D. C.  
Connelly, John Waldo, Jr., D. C.  
A. B., 1923, George Washington University
- Cooper, Morton Oscar, Tenn.  
B. S., 1912, Iowa State College;  
M. A., 1916, American University
- Crabb, William Mothershead, Ky.  
Curtis, Merritt B., Calif.  
A. B., 1916, University of California
- \*Darling, Carl Egbert, N. Y.  
Davidow, Israel, N. J.  
Davis, Marshall Dean, Ga.  
Deibler, David Hobson, Md.  
DeLong, Forrest Allen, Pa.  
Dick, Robert William, D. C.  
\*Doudeau, William L., N. Y.  
Drummond, Earle Jay, Ohio  
A. B., 1921, George Washington University
- Eaton, Paul Worthley, D. C.  
Eggleston, George William, Ind.  
Ellsworth, German Smith, Utah  
Epes, William Robinson, Md.  
B. S. in M. E., 1916, Virginia Polytechnic Institute
- †Evans, Walter Ogden, Ky.  
A. B., 1923, George Washington University
- Felslin, Judah Barnett, N. Y.  
M. E., 1922, Stevens Institute of Technology
- Frank, Abner, D. C.  
\*Gatchell, Willard Waddington, D. C.
- Gardner, Allen Howard, Pa.  
Gottle, Francis Samuel, Ark.  
Gibson, Edward Banks, D. C.  
Graduate, 1910, U. S. Naval Academy
- Graves, Harold Nathan, D. C.  
A. B., 1908, Knox College
- Gray, Porter McCain, Ky.  
A. B., 1923, Berea College
- Greenberg, Abraham S., N. Y.  
B. S., 1923, College of the City of New York
- Gruny, Charles Ray, Ill.  
A. B., 1924, Illinois College
- \*Gustafson, Olaf Alfred, Conn.  
Hagan, Jonathan Foster, Va.  
A. B., 1923, George Washington University
- Hanson, Vern Leslie, Minn.  
Hartsog, Howard G., Tex.  
A. B., 1926, Baylor University
- \*Hastings, George Sanda, D. C.  
A. B., 1921, George Washington University
- Heilman, Joseph Wolfe, D. C.  
B. S. in Econ., 1924, University of Pennsylvania
- Henry, Ernest Fulton, D. C.  
Hobson, John Robert, Md.  
Hood, Harold Burgess, Ind.  
B. S. in C. E., 1924, Rose Polytechnic Institute
- Hopping, Louis M., Ill.  
A. B., 1924, George Washington University
- Howrey, Edward Freeland, Iowa  
A. B., 1923, Iowa State University
- Hubbard, Wilbur Ross, Md.  
B. A., 1920, Yale College
- Hull, Charles Wesley, Pa.  
A. B., 1918, Franklin and Marshall College
- Hull, John Sommera, Ohio  
Hutton, Lynn D., S. Dak.  
B. S., 1919; M. S., 1923, South Dakota State College
- Imus, Alden Elon, Mo.  
King, Olive Virginia, D. C.  
Kinslow, G. Bala, Kans.  
\*Kirsch, William Ulysses, D. C.  
\*Kossow, Max, D. C.
- Ladd, Daniel Milton, N. Dak.  
Laird, Ralph Eldon, Iowa  
Lavender, Robert Alfred, D. C.  
Graduate, 1912, U. S. Naval Academy; M. S. in E. C. E., Harvard University
- \*Levinson, Joseph, D. C.  
Lewis, Samuel Lee, Okla.
- \*Locke, Howard Palmer, Jr., N. C.  
Mackey, Richard, Nebr.  
B. Sc., 1924, University of Nebraska
- Marchetti, Randolph Orville, D. C.  
A. B., 1923, George Washington University
- Marshall, Jacquelin Ambler, D. C.  
Marshman, Irving Howard, N. Y.  
B. S. in E. E., 1924, University of Minnesota
- Mendez, Joseph C., Colo.



- Merritt, Ella Arvilla, D. C.  
A. B., 1903; M. A., 1905, George Washington University
- Merry, Henry Herbert, Jr., Me.  
A. B., 1922, Bowdoin College
- \*Michener, Lawrence Records, Ind.  
Miller, Ammon Lee, Pa.  
Ph. B., 1924, Dickinson College
- Mitchell, Wade Hampton, D. C.  
Moore, Clarence William, D. C.  
A. B., 1924, George Washington University
- Moore, Clifton Leonard, N. C.  
A. B., 1923, University of North Carolina
- Morrison, Phoebe, Md.  
A. B., 1924, Vassar College
- Mount, Thomas Keener, Md.  
Myres, Eustis, Tex.
- McGraw, Willard Graves, Md.  
\*McKnight, Robert Bruce, Utah
- McSwain, William Adney, N. C.  
B. S., in Commerce, 1925, University of South Carolina
- Nacrelli, Joseph Anthony, Pa.  
Neil, Hubert Frederick, N. Y.  
Newton, Hazel Mae, Mass.
- Nihson, Chester Edward, S. Dak.  
O'Hanrahan, Edmond Constantine, Minn.  
B. S. in Eng., 1920, University of Minnesota
- O'Harrow, Edgar Walter, N. Dak.  
A. B., 1924, University of North Dakota
- Ohlander, Lyle Wayne, D. C.  
A. B., 1925, George Washington University
- \*Palmer, Charles Mulford, Mass.  
B. S. in M. E., 1921, Tufts College
- \*Patterson, Homer Scott, Ga.  
A. B., 1924, George Washington University
- Paulson, Eli Martinus, D. C.  
Peter, Edward, Md.
- \*Peterson, Robert Dupree, Tex.  
Pledger, Charles Edward, Jr., Va.
- Potter, Edward Lee, Va.  
A. B., 1910, Washington and Lee University
- Rangle, Hilda Ruth, D. C.  
A. B., 1925, George Washington University
- Redfield, Alden Dallas, N. J.  
Graduate, 1923, U. S. Naval Academy
- Reeder, Alton Mortimer, Tex.  
Reynolds, Edwin Louis, Md.  
C. E., 1922, Lehigh University
- Robert, Arthur Fortney, Pa.  
B. S. in E. E., 1922, Pittsburgh University
- Rosenberg, Israel Harry, D. C.  
B. S., 1922, Harvard University
- \*Roseman, Joseph, Pa.  
B. S. in Ch. E., 1922, University of Pennsylvania
- \*Sbarbaro, John George, N. J.  
B. S., 1917, Columbia University
- \*Searborough, Walter Boyd, Tex.  
\*Schottler, George Jesse, Minn.  
B. S. in E. E., 1923, University of Minnesota
- Sherwood, Cameron, D. C.  
A. B., 1923, Whitman College
- Shuey, Herman Jay, D. C.  
A. B., 1917, Dickinson College
- Sibbe, Carl Frederick, Wis.  
B. S. in M. E., 1924, University of Wisconsin
- Simpson, Vivian Virginia, D. C.  
A. B., 1925, George Washington University
- \*Simmons, Benjamin Taylor, D. C.  
Graduate, 1895, U. S. Military Academy
- Slack, Thomas Alfred, D. C.  
B. S., 1923, Virginia Military Institute; C. E., 1922, Cornell University
- Smith, Ardis Adela, Iowa.  
\*Somervell, Howard, D. C.
- \*Steele, Eugene Newton, Ky.  
A. B., 1925, University of Kentucky
- \*Stewart, Thomas Franklin, D. C.  
B. S. in C. E., 1923, George Washington University
- Tepper, Nolan Harris, D. C.  
Teu, Sanford Broglyne, N. C.  
A. B., 1922, University of North Carolina
- Thaxton, Robert Calvin, Tex.  
B. S., 1916, Agricultural and Mechanical College of Texas
- Tilton, Harry D., Ky.  
Tobias, Clyde Anderson, Iowa  
A. B., 1925, George Washington University
- Treadway, William Eugene, Ind.  
A. B., 1924, Indiana University
- Trichela, Nelson Eugene, Pa.  
Ph. B., 1924, Dickinson College
- \*Tudike, Edward Lafayette, Va.  
Upham, Cyril Bryce, Iowa  
A. B., 1915, Morningside College; A. M., 1917; Ph. D., 1918, State University of Iowa
- Van Alstine, Francis Everett, Iowa  
Van Coot, Ray, Jr., Utah
- Wagner, Winfield Frederick, Wyo.  
Walker, Homer Deal, Tex.
- Wallace, Victor Allison, Utah  
Warren, Thomas Lafayette, N. C.  
A. B., 1922, University of North Carolina
- West, Ralph Eric, Calif.  
A. B., 1917, University of California
- Wilkins, William John, Mich.  
Willey, Roland Henry, Wis.
- Wilson, Riley Joe, Jr., La.  
Wilson, Robert Clarence, N. C.
- Woodruff, George Lynn, D. C.  
Graduate, 1912, U. S. Naval Academy
- \*Wrenn, John Edwin, Pa.  
Young, Arthur Nichols, N. J.  
A. B., 1910, Occidental College; A. M., 1911; Ph. D., 1914, Princeton University
- Youngman, Frederick Ewin, Wyo.  
A. B., 1925, George Washington University
- Yung-Kwai, Burnham, D. C.  
A. B., 1919, Yale College
- Zimmerman, Carl Dressler, Utah

## CANDIDATES FOR THE DEGREE OF MASTER OF LAWS

- Allen, Herbert Osbourn, Va.  
LL. B., 1924, George Washington University
- †Bartl, Forest Florian, Ind.  
LL. B., February 1927, George Washington University
- Binkley, Fred Dickson, Tenn.  
LL. B., 1925, Vanderbilt University
- \*Blinder, Maxwell Elliott, N. Y.  
A. B., 1924, University of Missouri; LL. B., 1925, George Washington University
- \*Bobo, Pat R., D. C.  
A. B., 1925; LL. B., 1926, Baylor University
- Brinkley, Milo Hamilton, Calif.  
B. S. C. E., 1903; C. E., 1906, University of Missouri; LL. B., 1926, George Washington University
- \*Brown, Francis Willis, D. C.  
A. B., 1924; LL. B., 1926, George Washington University
- Brubaker, John Henry, Mont.  
LL. B., 1926, Georgetown University
- \*Byerly, Herbert Scott, D. C.  
LL. B., 1925, Georgetown University
- \*Clephane, Beatrice Adaline, Md.  
A. B., 1920, Wellesley College; LL. B., 1924, George Washington University
- Colberg, Wilson P., P. R.  
LL. B., 1926, University of Porto Rico
- Dagger, Golden Norman, Va.  
A. B., 1910, and LL. B., 1921, Ohio State University; A. M., 1915, University of Wisconsin
- \*DeFeo, John Donald, Conn.  
LL. B., 1926, George Washington University
- \*Dodd, Esther Elizabeth, N. Y.  
LL. B., 1924, George Washington University
- \*†Douden, William L., N. Y.  
LL. B., February, 1927, George Washington University
- \*Faulkner, Robert Nelson, Jr., Calif.  
LL. B., 1926, George Washington University
- Hamilton, William Greene, Ark.  
B. A., University of Arkansas; LL. B., 1924, George Washington University
- \*Harris, Howard Dodds, Ohio  
LL. B., 1926, George Washington University
- \*Hernandez, Francisco Jose, P. R.  
LL. B., 1925, George Washington University
- Herr, George Swarts, Pa.  
LL. B., 1923, George Washington University; A. B., 1926, George Washington University
- Holmes, Clay Clinton, N. Y.  
LL. B., 1926, George Washington University
- Hooker, John Robert, Ohio  
LL. B., 1926, Georgetown University
- \*Lavine, Harold H., Va.  
LL. B., 1925, George Washington University
- \*Lavine, Isidor Morria, Va.  
LL. B., 1925, George Washington University
- \*Law, Albert James, Utah  
LL. B., 1926, George Washington University
- \*Littlepage, John Marshall, Md.  
LL. B., 1926, George Washington University
- Lutz, E. Russell, D. C.  
A. B., 1922, George Washington University; LL. B., 1926, Yale University
- Murphy, Robert Daniel, Wis.  
LL. B., 1920, George Washington University
- McCorken, Eugene Paul, N. Y.  
Engineer of Mines, 1910, Columbia University; LL. B., 1926, George Washington University
- †McKnight, Robert Bruce, Utah  
LL. B., February, 1927, George Washington University
- McNabb, Alexander Dennis, D. C.  
LL. B., 1924, DePaul University
- Newman, Helen, D. C.  
LL. B., 1925, George Washington University
- Oliver, Ernest H., Utah  
LL. B., 1925, George Washington University
- Palmer, Charles Mulford, Mass.  
B. S. in M. E., 1921, Tufts College; LL. B., 1926, George Washington University
- Patten, Kenneth Spaulding, D. C.  
LL. B., 1926, George Washington University
- Perez, Jesus Ysidro, P. I.  
LL. B., 1925, National University, P. I.
- †Petty, Joe Nicholas, Ala.  
LL. B., 1928, George Washington University
- †Potter, Edward Lee, Va.  
A. B., 1910, Washington and Lee University; LL. B., February 1927, George Washington University
- \*Price, Harry, Pa.  
B. S. in Ch. E., 1923, University of Pennsylvania; LL. B., 1926, George Washington University
- Rapoport, Simon, Tenn.  
LL. B., 1925, Vanderbilt University
- †Schottler, George Jesse, Minn.  
B. S. in E. E., 1923, University of Minnesota; LL. B., February 1927, George Washington University
- Scott, Richard Christian, D. C.  
Graduate, 1911, U. S. Naval Academy; LL. B., 1926, University of Oklahoma
- †Shalowitz, Aaron Louis, Md.  
LL. B., 1926, Georgetown University



Shumaker, Frederic Arthur, Kans.  
LL. B., 1922, George Washington  
University  
Tate, Jack Bernard, Tenn.  
A. B., 1924, University of Tennessee;  
LL. B., 1926, Yale University

\*Trenholm, D. Gerald Lee, S. Dak.  
LL. B., 1925, George Washington  
University  
†Trimble, John Thomas, Jr., Ga.  
LL. B., 1926, George Washington  
University  
†Williams, George Holland, W. Va.  
LL. B., 1916, University of Virginia

## CANDIDATE FOR THE DEGREE OF MASTER OF PATENT LAW

Speers, George Cecil, D. C.  
A. B., 1908; M. A., 1913; LL. B.,  
1913, University of Manitoba,  
Canada

## UNCLASSIFIED STUDENTS

Barnes, Lewis Horatio, Tex.  
LL. B., 1925; LL. M., 1926, George  
Washington University  
Beall, McPherson Scott, N. C.  
B. S., 1925, Duke University  
\*Beck, Henry Abraham Winchester, Ind.  
A. B., 1925, Harvard University  
Brown, Ammi, D. C.  
A. B., 1897; A. M., 1902, Harvard  
University  
Cavanagh, William, S. Dak.  
B. S. in C. E., 1924, University of  
South Dakota  
\*Cook, James Knight, Ark.  
B. S., 1909, University of Wisconsin  
David, Walter Dewey, Ohio  
Graduate, 1920, U. S. Naval  
Academy  
Dolan, John Joseph, D. C.  
A. B., 1923, Princeton University  
†Fenwick, Charles Rogers, Va.  
\*Matthews, Annabel, Ga.  
A. B., 1901, Brenau College

Miller, Gustav Jacob, Pa.  
A. B., 1920, Colgate University  
\*Morton, Craig Venable, D. C.  
A. B., 1910, Hampden Sidney Col-  
lege  
McCrady, Archie Roland, D. C.  
B. S. in C. E., 1924, University of  
Minnesota  
†McKee, Edward Frank, W. Va.  
McRae, David Essell, D. C.  
LL. B., 1924; LL. M., 1926, George  
Washington University  
Parker, Edward Cortlandt, N. J.  
A. B., 1924, Harvard University  
Purdy, Frank Marion, Wash.  
Seacher, Karl, Kans.  
A. B., 1918, George Washington Uni-  
versity; LL. B., J. D., Yale Uni-  
versity  
Whalen, James Joseph, Pa.  
Wilson, Gordon Kase, Pa.  
A. B., 1926, George Washington  
University

## SPECIAL STUDENTS

Arbogast, Thomas Liston, Ill.  
Atherholt, Gordon Meade, D. C.  
Baucom, Byrne Virchow, D. C.  
Baumann, Carl Adam, Pa.  
Brawner, John Lloyd, D. C.  
Cain, Benjamin Butler, Jr., Tex.  
Carr, Josiah Lawrence, Tex.  
Cerco, Gunnar John, N. Y.  
Chmilton, O. Herman, D. C.  
\*Christopher, Burr, Mich.  
\*Clark, Howard James, Fla.  
Conrad, William George, Calif.  
Cowford, Yelverton, Ala.  
Craighill, Alexander Lee, D. C.  
Cullen, Elizabeth, D. C.  
Dooley, John Warren, Ill.  
\*Fager, Howard Francis, D. C.  
\*Floyd, Jack, D. C.  
Gartner, Allen George, Tenn.  
\*Grantham, Everett Milton, N. Mex.  
Grimme, Prewett J., D. C.  
\*Hanson, Thomas Read, N. Mex.  
Higgins, Alice, D. C.  
Hodge, Robert Quay, Ala.  
Hodges, Ethel, Ky.  
Hogan, Beanie, Va.  
Hull, Edward Seabrook, D. C.  
\*Hurley, Joseph H., D. C.

Hyde, Rosel H., Idaho  
\*Jenkins, Ida May, D. C.  
Kass, Martha M. R., S. Dak.  
Larkin, William Wallace, Va.  
Murphy, Thomas Francis, Mass.  
Musgrave, Anne Sightler, Md.  
McClerkin, Juan Fred, Ark.  
Newman, John Joseph, N. Y.  
Nichols, Francis Loyola, Md.  
†Oscar, Jerome Kay, D. C.  
Payne, Wilford Hoten, Utah  
\*Reavis, Thomas Hill, La.  
Reid, Sydney, Utah  
Rice, Charles Austin, Iowa  
\*Rice, Claude Alvin, Ill.  
\*Roberts, James William Holmes, D. C.  
Sandford, James Frank, D. C.  
Sandusky, Bernard Mortimer, N. Y.  
Smith, Walter J., Ind.  
Smith, William Montgomery, Va.  
Sunderland, Lowry Edwin, Ill.  
Sutton, Granger G., D. C.  
Titus, Clayton Stanley, Jr., Pa.  
Toler, Wayland Randolph, D. C.  
\*Viethmeyer, George Henry, D. C.  
Willis, Mary Dixon, D. C.  
†Yarley, Chalmers Benjamin, N. C.

## SUMMARY OF REGISTRATION 1926-27

Candidates for degree of Bachelor of Laws:	
First year.....	249
Second year.....	240
Third year.....	155
Total.....	644
Candidates for degree of Master of Laws.....	48
Candidates for degree of Master of Patent Law.....	1
Total.....	693
Counted twice.....	5
Total candidates for degrees.....	688
Unclassified students.....	20
Special students.....	55
Total, all students.....	763
Candidates for degrees who are college graduates.....	322
Percentage.....	46.9

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS 1926-27

Alabama.....	6	Nebraska.....	3
Arkansas.....	4	New Hampshire.....	4
California.....	15	New Jersey.....	14
Colorado.....	3	New Mexico.....	5
Connecticut.....	10	New York.....	38
Delaware.....	4	North Carolina.....	19
District of Columbia.....	210	North Dakota.....	5
Florida.....	3	Ohio.....	21
Georgia.....	5	Oklahoma.....	12
Idaho.....	6	Pennsylvania.....	34
Illinois.....	19	Rhode Island.....	1
Indiana.....	26	South Carolina.....	7
Iowa.....	19	South Dakota.....	9
Kansas.....	10	Tennessee.....	10
Kentucky.....	11	Texas.....	14
Louisiana.....	4	Utah.....	36
Maine.....	2	Vermont.....	4
Maryland.....	40	Virginia.....	27
Massachusetts.....	23	Washington.....	1
Michigan.....	10	West Virginia.....	17
Minnesota.....	10	Wisconsin.....	10
Mississippi.....	6	Wyoming.....	4
Missouri.....	12	Philippine Islands.....	3
Montana.....	4	Porto Rico.....	2



## COLLEGES REPRESENTED BY GRADUATES

Alabama, University of.....	2	Miami University.....	1
American University.....	1	Michigan Agricultural College.....	1
Antioch College.....	1	Michigan, University of.....	6
Arkansas, University of.....	1	Middleburg College.....	1
Baylor University.....	2	Minnesota, University of.....	8
Berea College.....	1	Mississippi Agricultural and	
Bowdoin College.....	2	Mechanical College.....	1
Brenau College.....	1	Missouri, University of.....	3
Brigham Young University.....	2	Missouri State Teachers Col-	
Brooklyn Polytechnic Institute.....	1	lege.....	1
Brown University.....	2	Morningside College.....	1
Bucknell University.....	1	Mount Holyoke College.....	1
California, University of.....	5	Mount Union College.....	1
Carnegie Institute of Tech-		Nebraska, University of.....	3
nology.....	4	New Mexico, University of.....	1
Carson and Newman College.....	1	New York, College of the City	
Case School of Applied Science.....	1	of.....	2
Catholic University of America.....	1	New York University.....	1
Charleston, College of.....	1	North Carolina, University of.....	4
Chicago, University of.....	1	North Carolina State College of	
Ciradel, The.....	3	Agriculture and Engineer-	
Colgate University.....	1	ing.....	1
Columbia University.....	4	North Dakota, University of.....	1
Cornell University.....	9	Northwestern University.....	2
Dartmouth College.....	1	Norwich University.....	2
Davis and Elkins College.....	1	Oberlin College.....	1
Dayton, University of.....	1	Occidental College.....	1
Delaware, University of.....	3	Ohio State University.....	2
Dickinson College.....	3	Ohio Wesleyan University.....	1
Drury College.....	1	Oklahoma University.....	1
Duke University.....	2	Oxford University (England).....	1
Emory and Henry College.....	2	Pennsylvania, University of.....	10
Franklin and Marshall College.....	1	Pittsburgh, University of.....	1
Georgia Institute of Technology.....	1	Pomona College.....	1
George Washington University.....	51	Princeton University.....	3
Hamilton College.....	1	Purdue University.....	2
Hampden Sidney College.....	1	Rensselaer Polytechnic Insti-	
Harvard University.....	10	tute.....	2
Hope College.....	1	Richmond, University of.....	1
Idaho, University of.....	3	Rose Polytechnic Institute.....	3
Illinois College.....	1	Rutgers College.....	1
Indiana University.....	5	St. Louis University.....	1
Iowa State College.....	2	St. Olaf's College.....	2
Iowa, State University of.....	5	Simmons College.....	1
James Milliken University.....	1	South Carolina, University of.....	1
Johns Hopkins University.....	4	South Dakota State College.....	1
Kansas, University of.....	4	South Dakota, University of.....	2
Knox College.....	1	South, University of the.....	1
Lehigh University.....	6	Southern California, University	
Maine, University of.....	1	of.....	1
Maryland, University of.....	7	Stevens Institute of Tech-	
Massachusetts Institute of		nology.....	1
Technology.....	8	Syracuse University.....	3

Technische Hochschule of Vienna.....	1	Washington and Lee University.....	2
Tennessee, University of.....	3	Wellesley College.....	3
Texas, Agricultural and Mechanical College of.....	1	Wesleyan University.....	2
Trinity College.....	1	Western Maryland College.....	2
Tufts College.....	4	West Virginia University.....	2
Union College.....	1	Wetmore Hall, Saskatchewan, Canada.....	1
Utah, University of.....	4	Whitman College.....	1
Utah, Agricultural College of.....	5	William and Mary College.....	2
U. S. Military Academy.....	4	Wisconsin, University of.....	8
U. S. Naval Academy.....	17	Yale University.....	10
Vassar College.....	2	Yankton College.....	2
Vermont, University of.....	4		
Virginia Military Institute.....	1	Total.....	354
Virginia Polytechnic Institute.....	1	Counted more than once.....	21
Virginia, University of.....	4		
Wabash College.....	2	Number of college graduates.....	333
Washington University.....	1	Number of colleges represented.....	124



## GENERAL SUMMARY

### Teaching Staff

In many instances members of the teaching staff give only part time to the University.

Professors .....	94	
Associate Professors .....	23	
Clinical Professors .....	14	
Assistant Professors .....	17	
Associates .....	15	
Clinical Associates .....	9	
Lecturers .....	39	
Instructors .....	54	
Clinical Instructors .....	57	
Fellows .....	3	
Assistants .....	66	
		391

### Students Registered in the University 1926-27:

Department of Arts and Sciences—		
School of Graduate Studies.....	394	
Columbian College .....	2,836	
College of Engineering.....	523	
Teachers College .....	631	
		4,384

### Professional Departments—

Medical School .....	294	
Law School .....	763	
Pharmacy .....	37	
		1,094

Total ..... 5,478

### Summer School, 1926—

Arts and Sciences Summer School.....	1,180	
Medical Summer School.....	33	
Law Summer School.....	329	
		1,542

# GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama .....	24	Rhode Island .....	9
Arizona .....	4	South Carolina .....	33
Arkansas .....	13	South Dakota .....	22
California .....	50	Tennessee .....	33
Colorado .....	23	Texas .....	71
Connecticut .....	64	Utah .....	76
Delaware .....	10	Vermont .....	11
Florida .....	25	Virginia .....	411
Georgia .....	35	Washington .....	11
Idaho .....	25	West Virginia .....	70
Illinois .....	73	Wisconsin .....	51
Indiana .....	86	Wyoming .....	11
Iowa .....	74	District of Columbia .....	2,246
Kansas .....	52	Canada .....	4
Kentucky .....	46	China .....	6
Louisiana .....	22	Cuba .....	2
Maine .....	24	Denmark .....	2
Maryland .....	402	Egypt .....	1
Massachusetts .....	84	England .....	2
Michigan .....	46	France .....	1
Minnesota .....	53	Germany .....	1
Mississippi .....	40	Greece .....	1
Missouri .....	60	Ireland .....	1
Montana .....	20	Italy .....	1
Nebraska .....	16	Japan .....	3
Nevada .....	4	Korea .....	1
New Hampshire .....	13	Mexico .....	3
New Jersey .....	103	Nicaragua .....	2
New Mexico .....	12	Panama .....	8
New York .....	311	Philippine Islands .....	22
North Carolina .....	74	Porto Rico .....	21
North Dakota .....	19	Russia .....	4
Ohio .....	114	Smyrna .....	1
Oklahoma .....	46	Switzerland .....	2
Oregon .....	4		
Pennsylvania .....	263		5,478



## DEGREES CONFERRED

### COMMENCEMENT, 1926

#### HONORARY DEGREES

Doctor of Humane Letters

JOHN CLEMENT FITZPATRICK

Doctor of Letters

JOHN OLIVER LA GORCE

Doctor of Science

THOMAS ALLEN GROOVER

Doctor of Laws

LORA HAINES COOK

JOSEPH CLARK GREW

ESME HOWARD

#### DEGREES IN COURSE

##### Doctor of Philosophy

CHARLES OLIN BALL	Illinois
A.B. 1920, George Washington University	
M.S. 1922, George Washington University	
JULIUS FREDERICK THOMAS BERLINER	District of Columbia
B.S. in Ch.Eng. 1923, George Washington University	
M.S. 1923, George Washington University	
LEON LESLIE CAVINESS	Switzerland
A.B. 1906, University of Michigan	
A.M. 1913, University of Nebraska	
ESTELLA GERTRUDE NORMAN	Michigan
A.B. 1898, Battle Creek College	
M.D. 1907, American Medical Missionary College	
FRANK PORTER	Missouri
A.B. 1919, University of Missouri	
M.S. 1923, George Washington University	
HARVEY OWEN SARGENT	District of Columbia
B.S. 1901, Alabama Polytechnic Institute	
M.S. 1902, Alabama Polytechnic Institute	
A.M. 1923, George Washington University	
ZEVI HIRSCH STRYCOVSKI	Palestine
A.B. 1923, George Washington University	
A.M. 1924, George Washington University	

## Master of Arts

CLARENCE EDMUND BATSCHLET	Virginia
A.B. 1912, Franklin and Marshall College	
MARION GARDNER BEDELI	Connecticut
A.B. 1921, Connecticut College for Women	
ALVA HERSCHEL BENNETT	District of Columbia
A.B. 1918, Ohio State University	
MARY CAROLINE BLAISDELL	District of Columbia
A.B. 1924, Pomona College	
THEORA JULIETTE BUNNELI	Maryland
A.B. 1904, Goucher College	
ERNEST DENNING CAVANAUGH	North Carolina
A.B. 1921, Duke University	
MAY FRANCIS CLIFFORD	Minnesota
A.B. 1924, George Washington University	
SARA LOYOLA DORAN	New York
A.B. 1924, George Washington University	
LENARD ROY FOLSE	Louisiana
A.B. 1924, George Washington University	
PAUL DELONG GABLE	District of Columbia
A.B. 1925, George Washington University	
LOIS GOSNELL	South Carolina
A.B. 1924, George Washington University	
EDITH LOUISE GROSVENOR	District of Columbia
A.B. 1925, George Washington University	
CARSON C. HATHAWAY	Missouri
A.B. 1916, Park College	
THOMAS JEFFERSON HIGGINS	Iowa
A.B. 1923, George Washington University	
WILLIAM MAGUIRE HOFFMAN	District of Columbia
Ph.B. 1907, Dickinson College	
WARD LOAN HOPPER	Wisconsin
B.S. 1917, University of Wisconsin	
ELIZABETH ALICE HUMMER	District of Columbia
A.B. 1917, George Washington University	
BLANCHE ELIZABETH LEWIS	District of Columbia
A.B. 1923, George Washington University	
WALTER LANGDON MALLORY	Virginia
B.S. 1908, Virginia Polytechnic Institute	
M.S. 1910, Virginia Polytechnic Institute	
ANNIE EARLY MARTIN	Virginia
A.B. 1921, Randolph-Macon Woman's College	
DONALD BENJAMIN MILLER	Illinois
A.B. 1921, State University of Iowa	
JOSIAH TURNER NEWCOMB	New York
A.B. 1892, Williams College	
MADELINE F. O'BRIEN	Ohio
B.S. in Education, 1920, Ohio State University	
ESTELLE MARGUERITE PITTMAN	Ohio
A.B. 1925, George Washington University	
DOMINIC LOUIS PUCCI	Michigan
A.B. 1924, George Washington University	
LUCY VIRGINIUS REARDON	Virginia
A.B. 1925, George Washington University	
MARGARET DAVIS REED	District of Columbia
A.B. 1920, George Washington University	



ELIZABETH LUCILE SMITH	District of Columbia
A.B. 1890, Knox College	Idaho
EARL JAMES SOELBERG	Virginia
A.B. 1925, George Washington University	District of Columbia
HEBER ALLEN SOTZIN	District of Columbia
A.B. 1923, George Washington University	District of Columbia
ALMA JANE SPEER	District of Columbia
A.B. 1913, University of Texas	District of Columbia
LUCY ELIZABETH STEELE	District of Columbia
A.B. 1925, George Washington University	District of Columbia
MARY JOSEPHINE VACCARO	District of Columbia
A.B. 1924, George Washington University	District of Columbia
MARIE ESTELLE WALCOTT	District of Columbia
A. B. 1923, George Washington University	District of Columbia
EDGAR WILLIAM WOOLARD	District of Columbia
A.B. 1923, George Washington University	

## Master of Science in Chemistry

RONALD BUCKLEY	Utah
B.S. 1923, University of Utah	New Hampshire
CARLETON LORD CAME	District of Columbia
B.S. 1919, University of New Hampshire	District of Columbia
RAYMOND McGEARY HANN	Ohio
B.S. in Chem. 1925, George Washington University	District of Columbia
EDWARD P. HENDERSON	District of Columbia
A.B. 1924, George Washington University	District of Columbia
KENNETH DONALD JACOB	Pennsylvania
B.S. 1918, Mississippi Agricultural and Mechanical College	Pennsylvania
RUSSELL MORGAN JONES	Texas
B.S. 1920, Pennsylvania State College	District of Columbia
HAROLD S. KENNEDY	District of Columbia
A.B. 1924, George Washington University	District of Columbia
GORDON MAREY KLINE	Colorado
A.B. 1925, Colgate University	Ohio
FRANK O. LUNDSTROM	Ohio
A.B. 1921, George Washington University	Iowa
FREDERICK MARCHIONNA	Iowa
B.S. 1924, Case School of Applied Science	California
ORVILLE EDWARD MAY	Ohio
A.B. 1924, George Washington University	Ohio
EDWARD A. SWEDENBORG	District of Columbia
A.B. 1924, George Washington University	District of Columbia
REES FERNEAU TENER	District of Columbia
A.B. 1920, Marietta College	District of Columbia
CARROLL TRUETT THOMAS	District of Columbia
B.S. 1920, University of Richmond	District of Columbia
CHESTER TIETIG	Texas
A.B. 1923, University of Cincinnati	Texas
WESLEY KYLE WARD, JR.	New York
A.B. 1923, University of Texas	New York
B.S. in Ch. Eng. 1923, University of Texas	Indiana
REUBEN WEINSTEIN	Indiana
A.B. 1914, George Washington University	
ARTHUR WAYNE WELLS	
A.B. 1924, George Washington University	

## Master of Science in Engineering

HUGH PALMER HILL, JR.	District of Columbia
B.S. in C.E. 1924, George Washington University	
JOHN GUSTAV LOEHLER	District of Columbia
B.S. in C.E. 1924, Lafayette College	
JOSEPH CARL OLEINIK	Montana
B.S. in C.E. 1923, University of Nebraska	
CHARLES McMANUS SULLIVAN	Rhode Island
B.S. in Ch. Eng. 1919, Rhode Island State College	

## Bachelor of Arts

LELAND MILTON ALDEN	District of Columbia
ISADORE MEYER ALPHER	District of Columbia
(With Distinction)	
HOWARD CARLTON AMEIGH	New York
(With Distinction)	
LL.B. 1923, Georgetown University	
ELIN AUGUSTA ANDERSON	New York
ARTHUR ZAPOLSKY ARNOLD	New York
(With Distinction)	
LOUISE MORGAN BANNERMAN	Tennessee
(With Distinction)	
ELEANOR KATHERINE BARROLL	Maryland
ROSE EATON BECKER	District of Columbia
(With Distinction)	
KATHERINE HENDEE BEEMAN	New York
SAMUEL BENJAMIN BERMAN	District of Columbia
EDWIN SUMNER BETTELHEIM, JR.	District of Columbia
LL.B. 1924, George Washington University	
LL.M. 1925, George Washington University	
SARAH MARGARET BLACK	Texas
NELSON MOREHOUSE BLAKE	Maryland
JOHN H. BLYTHE	Kentucky
HAZEL ALVA BORDEN	Massachusetts
KATHERINE ASPINWALL BRAKE	California
EDITH BREAZEALE	South Carolina
ELLEN MATHER BUELL	Virginia
SABRA BURGESS	Indiana
STELLA BURKE	Rhode Island
JEAN THOMPSON CAMPBELL	District of Columbia
ANTHONY CARAS	Greece
MARGARET JOHNS SKINNER CARR	Maryland
ALEXANDER McCLELLAND CASANGES	Indiana
FRANCES FUNSTEN CASTLEMAN	Virginia
WASHINGTON IRVING CLEVELAND	Maryland
L.B. 1924, George Washington University	
ROY LESLIE COBB	Ohio
NATHAN B. COHEN	New Jersey
ALICE COLBERT	District of Columbia
JOAN RUTH COLLINS	California
MAURICE AUGUSTUS CREWS	District of Columbia
FRANCES CHARLOTTE CUATT	District of Columbia
BENJAMIN FRANKLIN DEAN, JR.	District of Columbia
M.D. 1923, George Washington University	
VICTOR ARMAND DE POTTER	New York



JOEL LeROY DEUTERMAN	Virginia
GEORGE RAYWOOD DEVIIT, JR.	Virginia
ELIZABETH DORSEY	District of Columbia
(With Distinction)	
SARA WHITE DORT	District of Columbia
(With Distinction)	
DOROTHY DOUGHERTY	District of Columbia
(With Distinction)	
LILLIAN BERTHA DUTTON	District of Columbia
HELEN ELSIE EAKIN	Kansas
MARTHA LUCILE EDMANSON	District of Columbia
MARGARET STEWART FALLON	District of Columbia
ABE S. FINKELSTEIN	New Jersey
EDITH ELIZABETH FINNEY	District of Columbia
FRANCES MORSE FISHER	District of Columbia
CLARENCE WILBUR FISK	Maryland
VERNA MARY FLAGG	Illinois
MARTIN CARROLL FLOHR	District of Columbia
(With Distinction)	
VERSIE FAY FRAZIER	North Dakota
HAROLD FRUCHTER	New York
HARRY A. GILBERT	Oklahoma
JEWELL JEANETTE GLASS	Mississippi
DEBORAH I. GOLD	Massachusetts
(With Distinction)	
MORRIS H. GOLDENBERG	New York
EDGAR LEONARD GOODMAN	District of Columbia
HELEN ELY GREGG	District of Columbia
RUTH GREGORY	District of Columbia
ALICE IOLA HAINES	District of Columbia
HELEN FRANCES HALL	District of Columbia
GRACE HARRIS	District of Columbia
JACK HAYES	District of Columbia
MELVILLE LYNWOOD HEIGES	District of Columbia
(With Distinction)	
WALTER CLEAVELAND HENDERSON	Maryland
(With Distinction)	
LL.B. 1902, Boston University	
HENRY BRENTON HENRICKSON	Rhode Island
JESSE BARTLETT HILDERRAND	Virginia
LOIS FLOY HIMES	Nebraska
ANNA MAY HIMMELBERGER	Pennsylvania
MARIE HUNTINGTON HINCKLEY	New Hampshire
FRANK JOY HOPKINS	Maryland
WILLIAM HENRY HUGHES	Texas
GLADYS MARGURITA ISEMAN	District of Columbia
(With Distinction)	
LELAND FRIERSON JAMES, JR.	District of Columbia
VIRGINIA HENRIETTA JAMES	Maryland
JOSEPH H. KATZ	New York
JOSEPH ALEXANDER KAUFFMANN	Virginia
GARTH HAMACHER KELLEY	Pennsylvania
LEO KESSLER	New York
MARGARET ANNA KLEIN	Pennsylvania
KATHERINE LACY	District of Columbia

ROLAND J. LEHMAN.....	Illinois
LL.B. 1921, George Washington University	
MARY LOUISE LEMON.....	District of Columbia
MOSES AARON LESSER.....	Massachusetts
LL.B. 1925, George Washington University	
JESS J. LIEBERMAN.....	New York
MARGERY LEVE LOEB.....	New York
ROBERT EUGENE LUDWIG.....	Virginia
WILLIAM LAWRENCE McCABE.....	Utah
B. ALICE McCLURG.....	Indiana
MARIE McINTYRE.....	District of Columbia
GEORGE HENRY GORSUCH McLAIN.....	District of Columbia
JOHN EDWARD GORSUCH McLAIN.....	District of Columbia
HERBERT ANDERSON MAGLEBY.....	Idaho
MARCUS DAVID MASON.....	New York
VIRGINIA MERRITT.....	Maryland
HELEN MUSSON.....	District of Columbia
GEORGE EDWARD O'CONNOR.....	District of Columbia
JOSEPH LOUIS O'CONNOR.....	District of Columbia
HELEN JUBE PERIAM.....	New Jersey
JOHN S. PETRIE.....	Egypt
LL.B. 1919, National University Law School	
LACY RUFINA PUGH.....	Mississippi
VIRGINIA REA.....	District of Columbia
FRANK EDMUND RUSSELL.....	Alabama
LL.B. 1924, George Washington University	
IGNATIUS RUTKOSKI.....	District of Columbia
MORRIS M. SCHAIN.....	New York
ALICE HELEN SHAW.....	District of Columbia
(With Distinction)	
WILLIAM VAN AMBERG SIMMONS.....	Mississippi
LL.B., 1925, George Washington University	
MATTIE LOU SIZEMORE.....	Virginia
A.B. 1919, Chowan College	
HELEN ANN SLAPNICKA.....	Iowa
FRANK SMITH.....	District of Columbia
(With Distinction)	
LYNE STARLING SMITH.....	Kentucky
DANIEL GLENN SORBER.....	Washington
ARNOLD A. SPIEGLER.....	New York
ETHEL DENSMORE STARR.....	New York
PHYLA MARSH STEVENS.....	District of Columbia
ALICE ELIZABETH TAYLOR.....	Pennsylvania
JAMES HUDSON TAYLOR.....	Pennsylvania
ALICE CILLANN TERRILL.....	District of Columbia
HILDRETH COOK VORIS.....	District of Columbia
SOPHIA FLORENCE WALDMAN.....	District of Columbia
(With Distinction)	
DANIEL BOONE WASHINGTON.....	District of Columbia
(With Distinction)	
JULIA WAKEFIELD WATKINS.....	South Carolina
RAYMOND CHARLES WEBER.....	Pennsylvania
IDA WECKERLY.....	Maryland
CAROLINE DAVIDSON WEST.....	Virginia
MABEL RUTH WILLIAMS.....	Illinois
(With Distinction)	



GORDON K. WILSON.....	Pennsylvania
NAT JOSEPH WILSON.....	Connecticut
ETHEL WOLPE .....	District of Columbia
PAUL DAVIS WOODARD.....	District of Columbia
HAROLD MAXWELL YOUNG.....	Alabama

#### Bachelor of Science in Architecture

THOMAS JOHN ROWLAND.....	Georgia
JOHN FENNELL WOLFE.....	District of Columbia

#### Bachelor of Science in Chemistry

CULLEN GEORGE FREY.....	District of Columbia
ARTHUR EVARTS KIMBERLY.....	District of Columbia
ADAM SHELBY HOLMES TRAPPEY.....	District of Columbia
(With Distinction)	
A.M. 1916, Louisiana State University	
HELEN WOODWARD.....	District of Columbia

#### Bachelor of Science in Chemical Engineering

GEORGE LINDER BIXBY, JR.....	Michigan
(With Distinction)	
HARRY BRICE DIXON.....	Pennsylvania
GEORGE DAVID WHITE.....	New York

#### Bachelor of Science in Civil Engineering

FRANK MEYER ALBERT.....	New Jersey
WILLIAM GREENBERG.....	District of Columbia
CLEMENT MESERVY JOHNSTON.....	Virginia
IRWIN ISADORE KAPLAN.....	District of Columbia
WALTER SCOTT McBROOM.....	District of Columbia
(With Distinction)	

#### Bachelor of Science in Electrical Engineering

HERBERT HAROLD BROWN.....	Massachusetts
LL.B. 1923, Georgetown University	
M.P.L. 1924, Georgetown University	
ADRIEN FOWLER BUSICK, JR.....	Virginia
(With Distinction)	
LEO PATRICK McCANN.....	District of Columbia
JAMES HARVEY PIM.....	Colorado
WILLIAM LEWIS VAN BUREN WARREN.....	District of Columbia

#### Bachelor of Science in Mechanical Engineering

ROBERT DONALD BEST.....	Colorado
PAUL WILLIAM BURK.....	District of Columbia
PHILIAS HENRY GIROUARD.....	Rhode Island
(With Distinction)	
WALTER BARTOW LAWRENCE.....	Texas
GILBERT KARL LUDWIG.....	Ohio
ALEXANDER KEENE PHILLIPS, JR.....	District of Columbia
WALTER LEWIS SHIVELY.....	District of Columbia
B.S. in Ch. Eng. 1924, Carnegie Institute of Technology	

## Bachelor of Science in Physics

THOMAS GOODWIN DIGGES.....Virginia

## Bachelor of Arts and Bachelor's Diploma in Education

MATILDA AARONSON.....Maryland  
 EDYTHE MARGUERITE ATCHISON.....District of Columbia  
 MORRIS BERMAN.....New York  
 ELLEN MABEL BOWKER.....District of Columbia  
 HARRIET ELLEN BUNDICK.....District of Columbia  
 (With Distinction)  
 RUTH ESTHER BUTTS.....Virginia  
 MARION LOUISA CHAPMAN.....District of Columbia  
 (With Distinction)  
 ADELAIDE CRANE CLOUGH.....Maryland  
 MARY AMBER CRAMER.....District of Columbia  
 MARGARET IJAMS DARBY.....Maryland  
 FANNIE DODEK.....District of Columbia  
 ANNA LOUCINDA ERICSON.....Kentucky  
 VIRGINIA WINSTON FISHER.....District of Columbia  
 JAY CARLETON GAINES.....Iowa  
 JEANNE ELIZABETH GRAVATTE.....District of Columbia  
 FLORENCE ISABEL GREGORY.....District of Columbia  
 ANN SPARKS HAMILTON.....Georgia  
 ROBERT WESLEY HANFORD.....Connecticut  
 CLARA HICKMAN.....District of Columbia  
 (With Distinction)  
 MARY EDWINA HOPE.....District of Columbia  
 PATTY ANN JAMISON.....Colorado  
 FLORENCE MAY JONES.....Nebraska  
 ANNA MARIE KENNELLY.....District of Columbia  
 (With Distinction)  
 EDNA FICK KILPATRICK.....District of Columbia  
 MARY PANSY STALEY KINCAID.....West Virginia  
 MARY E. KUTZ.....Indiana  
 PAULINE YATES LONG.....District of Columbia  
 HELEN ANN MCCOLLOM.....District of Columbia  
 MARY JANE McDONNELL.....Connecticut  
 EDITH FRANCIS MORGAN.....Illinois  
 ENOLA HARRIET NEWHOUSER.....District of Columbia  
 MARGARET R. PEPPER.....District of Columbia  
 ANNA LOUISA PIEPENERINK.....Indiana  
 LILLIE TERESIA SCHMIDT.....District of Columbia  
 FLORENCE HUDSON SCHUBERT.....Maryland  
 ESTHER WEBB SCOTT.....Maryland  
 MAUDE SESSIONS.....District of Columbia  
 MARGUERITE EURN SMITH.....District of Columbia  
 MARGUERITE LOUISE STEELE.....Pennsylvania  
 (With Distinction)  
 EVANGELINE THURSTON.....Mississippi  
 SARA HELEN WALCOTT.....District of Columbia  
 MARTHA ELIZABETH WIMER.....District of Columbia



## Doctor of Medicine

ALEATHA EVELYN ANDERSON	West Virginia
A.B. 1923, George Washington University	New York
*DAVID GEORGE ARENSON	District of Columbia
SAMUEL MAURICE BECKER	New York
*SAMUEL BLINDER	New York
HENRY BLUM	New Jersey
MILTON GEORGE BOKBONE	Maryland
*ANDREW KEENE BOWIE	District of Columbia
*JAMES IRVING BOYD	
(With Distinction)	
A.B. 1923, George Washington University	District of Columbia
*IRVING BROTMAN	New York
*WILLIAM P. CORRIERO	Maryland
RONALD ATMORE COX	New York
*LOUIS DANTZIG	New York
*JAMES FORD DAVIDSON	District of Columbia
PHILIP DIATZ	New York
*BENJAMIN DINNERMAN	New York
*EDWARD VINCENT DOLLARD	New York
*JOSEPH JOHN DRAGO	New York
*WILLIAM ENGLER	
A.B. 1926, George Washington University	New Jersey
MILTON FRIEDMAN	South Dakota
FRANK E. GANTZ	Pennsylvania
*CARLTON DUNCAN GOODIEI	Maryland
*BERNARD J. GUERVICH	Virginia
*HYMAN HARBERG	New York
DAVID HYMAN	Minnesota
*RUSSELL JOHN JANSSEN	New Jersey
*JOSEPH JOHN LARKIN	District of Columbia
JAMES HUBERT McNEILL	New York
GEORGE MURRAY MANDELBAUM	
A.B. 1926, George Washington University	New York
*ARTHUR ARNOLD MARKOWITZ	District of Columbia
*LEE RICAUD MARTIN	
B.S. 1921, Virginia Military Institute	District of Columbia
*WILLIAM GEORGE MEIMAN	Connecticut
*WALTER NATHANIEL NELSON	New York
MORRIS SIMON NEWMAN	New York
*ISADORE PINSKY	Virginia
*PETER BOOTHE PULMAN	Maryland
WILLIAM SUIT RITCHIE	West Virginia
*HARRY WEST ROLLINGS, JR.	
B.S., West Virginia University	New York
*ISRAEL SAMUEL SCHWARTZ	Maryland
*HOWARD LEE SMITH	District of Columbia
OTHMAR SOLNITZKY	
(With Distinction)	
A.B. 1917, University of Saskatchewan, Canada	
A.M. 1918, Catholic University of America	
Ph.D. 1920, Catholic University of America	New York
*ARNOLD A. SPIEGLER	
A.B. 1926, George Washington University	District of Columbia
XAVERIUS CHARLES SURACI	New York
GUSTAVE TEPPER	

## Nurses' Diplomas

EDITH M. BEATTIE.....	Virginia
JAMIE LEAK BENBOW.....	North Carolina
SARA E. BRUCE.....	Virginia
MIRIAM M. CALDWELL.....	Tennessee
MELISSA ERYILLA CHAMBERLAIN.....	North Carolina
CYMBELINE MARIE HAMMELL.....	New York
ROSE ELLEN HEFFRON.....	District of Columbia
GRACE LEE HOPKINS.....	Virginia
EDNA NORMA MCGOEY.....	Pennsylvania
FRANCES ELEANOR MORROW.....	Florida
PAULINE OLIVE PARKER.....	West Virginia
JEWELL PARKIN.....	North Carolina
EDITH HELEN TOWNEND.....	Massachusetts
DOROTHY LURA WOOD.....	North Carolina

## Bachelor of Science in Pharmacy

HARLEY EARL BAKER.....	West Virginia
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## Bachelor of Laws

QUINCY DALTON ADAMS.....	Arkansas
A.B. 1921, University of Arkansas	
WALTER MICHAEL BAUMAN.....	Nebraska
HESTER WALKER BEALL.....	District of Columbia
ERNEST GUSTAVUS BENDER.....	District of Columbia
WHEELER KIRK BERRYMAN.....	Kentucky
THOMAS LINDSAY BLANTON, JR.....	Texas
B.S. 1923, Princeton University	
GEORGE DANIEL BONEBRAKE.....	Pennsylvania
A.B. 1924, George Washington University	
EDWARD FLEMING BRADEN.....	Illinois
A.B. 1924, University of Illinois	
MILO HAMILTON BRINKLEY.....	California
B.S. in C.E. 1903, University of Missouri	
C.E. 1906, University of Missouri	
BENJAMIN J. BROOKS.....	District of Columbia
KENNETH J. BUSHMAN.....	Minnesota
A.B. 1922, George Washington University	
MOSES BROWNLOW BYINGTON, JR.....	Tennessee
(With Distinction)	
Graduate, 1917, United States Naval Academy	
DAVID WOODWARD CANNON.....	Utah
A.B. 1923, University of Utah	
ALFRED KELLER CHERRY.....	Utah
THEODORE LIVINGS CHISHOLM.....	New York
B.E. 1919, Johns Hopkins University	
PERCY FORREST CHURBUCK.....	Massachusetts
MILFORD HARRISON CLARK.....	District of Columbia
HUGH H. CLEGG.....	Mississippi
A.B. 1920, Millsaps College	
EDWARD CLORE.....	Indiana
PEARLE HENSLEY COLLIER.....	Maryland
PAUL ARIEL COLVIN.....	Virginia
ERNEST EDWIN COON.....	West Virginia
MARIE FRANCES CRANDALL.....	New York



FRANCIS CLEMENTS DART.....	Florida
A. B. 1922, University of Georgia	
JAMES COX DAVIS, JR.....	Iowa
ROBERT BURROUGHS ELY.....	Virginia
A.B. 1920, Emory and Henry College	
LEE EARL EMERSON.....	Vermont
A.B. 1921, Syracuse University	
PASCAL DONALD FALLON.....	New York
ROBERT NELSON FAULKNER, JR.....	California
CLARENCE MILTON FISHER.....	District of Columbia
WALTER CHARLES GLEICHMAN.....	Indiana
WILLIAM HOWARD GRAY.....	Nevada
FRANK UPTON GREER.....	District of Columbia
PAUL DOUGLAS GRUBBS.....	District of Columbia
TERESE VERONICA HALEY.....	New York
ARNOLD CLEMENT HANSEN.....	New Jersey
HOMER MYRON HARTFORD.....	Pennsylvania
B.S. in E.E. 1922, Pennsylvania State College	
HOWARD DODDS HARRIS.....	Ohio
EDITH FLOY HAWORTH.....	North Carolina
ELMER RUNYAN HELFERICH.....	Michigan
B.S. in M.E. 1923, University of Michigan	
GEORGE DEWEY HICKS.....	Alabama
SAMUEL JONES HILL.....	Virginia
JOSEPH HIRSCHMAN.....	Pennsylvania
B.S. in Ch.E. 1923, Carnegie Institute of Technology	
HAVILAND HOBBS.....	Pennsylvania
CLAY CLINTON HOLMES.....	District of Columbia
JAMES PICKRELL HUME.....	District of Columbia
GEORGE OSMOND HYDE.....	Idaho
NELLE LOUISE INGELS.....	Illinois
Ph. B. 1911, Greenville College	
A.M. 1914, University of Illinois	
HARRY WISWELL JOHNSON.....	District of Columbia
LESTER WYLIE JOHNSON.....	Illinois
A.B. 1923, George Washington University	
LEWIS HARRY CLEMMER JOHNSON.....	California
HERBERT COWLING KIMBALL.....	Illinois
A.B. 1916, Dartmouth College	
SAMUEL WILLIAM KIPNIS.....	District of Columbia
JOHN REED KLINE.....	Missouri
B.S. in Agriculture, 1917, University of Missouri	
HARRISON E. KNAUSS.....	District of Columbia
Graduate, 1908, United States Naval Academy	
GEORGE H. KOSTER.....	District of Columbia
JAMES ARGILE LANGSTON.....	Oklahoma
WILLIAM ALBERT LASLEY.....	North Carolina
THOMAS CALLOWAY LATIMORE.....	Tennessee
Graduate, 1914, United States Naval Academy	
ALBERT JAMES LAW.....	Utah
ORME LEWIS.....	Arizona
ISAAC LISANKY.....	Pennsylvania
B.S. in C.E. 1922, University of Pennsylvania	
JOHN MARSHALL LITTLEPAGE.....	Maryland
ARTHUR GERALD LOGAN.....	New Jersey
A.B. 1925, George Washington University	

HARRY JOSEPH McDERMOTT	Iowa
A.B. 1923, University of Iowa	
WILLIAM STUART McKINLEY	West Virginia
MARGARET McLAUGHLIN	Iowa
A.B. 1922, Wellesley College	
JAMES CARRINGTON MADDOX, JR.	District of Columbia
ROSCOE EDWIN MAGUE	Massachusetts
A.B. 1923, George Washington University	
ELDRED N. MAHONEY	Iowa
FRANK HENRY MARKS	District of Columbia
B.S. 1921, George Washington University	
M.S. 1922, George Washington University	
JOHN VINCENT MARTIN	South Carolina
B.S. 1922, Clemson College	
JACK ASHBY MONCURE	Virginia
MERTON DAVID MORSE	New York
B.S. in E.E. 1922, Union College	
CHARLES JAMES O'KEEFE	Massachusetts
JOE NICHOLAS PETTY	Alabama
HENRY LEVINGS PHELPS	New York
Graduate, 1916, United States Naval Academy	
GEORGE BOUTIN PORTER	Iowa
A.B. 1923, State University of Iowa	
DAVID RINGLE, JR.	Colorado
WILLIAM TRAUOGOTT ROSENBUSCH	District of Columbia
MARION EMILY SCHWARTZ	Pennsylvania
A.B. 1924, George Washington University	
TEMPLE WAYNE SEAY	District of Columbia
PHILIP WILLARD SHEPARD	Nebraska
B.S. in C.E. 1915, Catholic University of America	
M.S. 1917, University of Michigan	
REGINA THERESA SULLIVAN	District of Columbia
WALTER HUBBARD TAYLOR	Michigan
MILDRED MARIE THRASHER	Ohio
OSWALD NEWTON TODD	Pennsylvania
GEORGE EDMUNDS TOLMAN	New York
JOHN THOMAS TRIMBLE, JR.	Georgia
EDWARD BURNAP WAGNER	New York
LEWIS JOSEPH WALLACE	Utah
EDWARD MORRISON WELLIVER	District of Columbia
ROBERT HENRY WENDT	Iowa
B.S. in E.E. 1923, George Washington University	
ERNEST LEROY WILKINSON	Utah
(With Distinction)	
A. B. 1921, Brigham Young University	
ROBERT WHIPPLE WILSON	Oregon
N. FAYE WOODWARD	Kansas
OSCAR ALVIN ZABEL	Washington

## Master of Laws

LEWIS HORATIO BARNES	Texas
LL.B. 1925, George Washington University	
ROBERT MANYDIER BRUCE	California
B.S. in M.E. 1922, California Institute of Technology	
LL.B. 1925, George Washington University	



DOUGLAS RILEY BUCHANAN	Massachusetts
B.S. 1920, Massachusetts Institute of Technology	
LL.B. 1925, George Washington University	
CHARLES ANGLE CARTER	Virginia
LL.B. 1924, George Washington University	
HERBERT ROBERT GROSSMAN	Kentucky
A.B. 1921, George Washington University	
M.A. 1922, George Washington University	
LL.B. 1924, George Washington University	
Ph.D. 1925, Georgetown University	
LEON JAWORSKI	Texas
LL.B. 1925, Baylor University	
IRENE CECILIA KUSHNER	District of Columbia
LL.B. 1925, George Washington University	
JOHN HENRY LITZELMAN	Pennsylvania
LL.B. 1925, George Washington University	
DAVID EZZELL McRAE	District of Columbia
LL.B. 1924, George Washington University	
SAMUEL VAN DYKE MARKLEY	Ohio
A.B. 1920, Miami University	
LL.B. 1924, George Washington University	
ARTHUR COLVIN PERRY	Texas
LL.B. 1924, George Washington University	
CHARLES EMORY PHILLIPS	Maryland
LL.B. 1925, George Washington University	
WENDELL PHILLIPS RAINE	Pennsylvania
B.S. in E.E. 1907, University of Pennsylvania	
M.A. 1911, University of Pennsylvania	
LL.B. 1922, George Washington University	
CLAUDE WALLACE SHELTON	Texas
LL.B. 1923, Washington and Lee University	
FREDERICK KNIGHT SLANKER	District of Columbia
A.B. 1921, University of Maryland	
LL.B. 1925, George Washington University	
JOHN C. STIRRAT	Utah
LL.B. 1925, George Washington University	
JAMES EDWIN STUART	Virginia
A.B. 1921, Emory and Henry College	
LL.B. 1924, George Washington University	

## Master of Patent Law

CLINTON SEARL JAMES	Maryland
LL.B. 1925, George Washington University	

## DEGREES CONFERRED OCTOBER 18, 1926

## Master of Arts

NORMAN THEODORE ANDERSON.....	Illinois
A.B. 1924, George Washington University	
WILLIAM LESLIE BALES.....	District of Columbia
A.B. 1924, George Washington University	
MARY MARGARET BOX.....	Texas
A.B. 1922, George Washington University	
PAUL EUGENE GROPP.....	Switzerland
A.B. 1923, George Washington University	
ANNA FANCHER HEDRICK.....	District of Columbia
A.B. 1921, Vassar College	
BRIGIDO GONZALES VILLALON.....	Philippine Islands
B.S. 1924, University of the Philippines	

## Master of Science

ROBERT ALDEN WEBSTER.....	Montana
B.S. 1914, University of Montana	
E.E. 1922, University of Montana	

## Bachelor of Arts

PAUL CORNELIUS ALBUS.....	Pennsylvania
FRANCES COOLEY BELL.....	Virginia
MARGARET EUGENIA BUCHSTEINER.....	Michigan
MARY LOUISE CHACE.....	District of Columbia
JOHN PAUL COLLINS.....	District of Columbia
WILLIAM A. D. DYKE.....	District of Columbia
FRANCES DEARING FAUNTLEROY.....	Virginia
HARRY SAMUEL GOLDSTEIN.....	District of Columbia
GEORGE S. HERR.....	Pennsylvania
GUY LLEWELLYN HOTTEL.....	Virginia
STUART STONE KINGSBURY.....	Michigan
LEON KATZ.....	District of Columbia
OLIVE CHRISTINE KINNEY.....	District of Columbia
EDWARD STONESTREET LAMAR.....	Maryland
CAROLYN WORD LILE.....	District of Columbia
RICHARD KERENS MCPHERSON.....	Missouri
MINNIE MADISON RONNING.....	Minnesota
(With Distinction)	
SAMUEL SHAPIRO.....	District of Columbia
JOHN ADAMS SOWERS.....	Virginia

## Bachelor of Science in Mechanical Engineering

PHIL L. RODIER.....	New York
---------------------	----------

## Bachelor of Arts and Bachelor's Diploma in Education

SAMUEL BRECHT BAYLE.....	Maryland
GERTRUDE ELIZABETH BURT.....	New York
JOSEPHINE HART RYAN.....	District of Columbia



**Doctor of Medicine**

STANLEY JOHN SKARZINSKI ..... West Virginia  
 B.S. 1923, West Virginia University

**Bachelor of Laws**

PAUL RUSSELL AMES ..... California  
 B.S. in Ch. E. 1922, California Institute of Technology  
 ROY PERCY ANDERSON ..... Wisconsin  
 B.S. 1923, University of Wisconsin  
 GEORGE ELMER BROWN ..... Washington  
 B.S. 1922, Princeton University  
 ALLEN RANDALL COZIER ..... Nebraska  
 EDWIN OLIVER DAUF ..... District of Columbia  
 B.S. and E.M. 1903, Michigan College of Mines  
 HOWARD THROOP GORDON ..... District of Columbia  
 ROBERT L. KAHN ..... District of Columbia  
 B.S. 1923, Harvard University  
 WILLIAM WALLACE MCBRIDE ..... Idaho  
 JOHN AQUILLA NEBEKER ..... Utah  
 CHARLES MULFORD PALMER ..... Massachusetts  
 B.S. in M.E. 1921, Tufts College  
 ROY RIFE PRIEST ..... Texas  
 A.B. 1924, University of Texas  
 GRACE MAE RUTH ..... Delaware  
 JAMES WILLIAM SOMMERVILLE ..... Virginia  
 RALPH LINWOOD WALKER ..... District of Columbia  
 SAMUEL WOLFFE ..... District of Columbia  
 B.S. in Ch. E. 1923, University of Pennsylvania

**Master of Laws**

HAROLD P. CURTIS ..... Minnesota  
 LL.B. 1925, George Washington University  
 ROLLIN HOWARD TRANSUE ..... District of Columbia  
 LL.B. 1925, George Washington University

## MID-WINTER CONVOCATION, 1927

## Doctor of Philosophy

EDWIN JOHN CAMERON.....	District of Columbia
B.S. 1920, Massachusetts Institute of Technology	
GEORGE HENRY HANSEN.....	Utah
B.S. 1918, Utah Agricultural College	
A.M. 1925, George Washington University	

## Master of Arts

CLIFT PALSGROVE BERGER.....	Pennsylvania
B.S. 1924, Franklin and Marshall College	
SIMON BRODER.....	New York
M.E. 1924, Cornell University	
EDA BURLACK.....	District of Columbia
A.B. 1914, Mississippi State College for Women	
ADA GAUTIER DORR.....	District of Columbia
A.B. 1919, Mississippi State College for Women	
ESSIE LOU EARP.....	Texas
A.B. 1926, Howard Payne College	
ESTHER HANDCOCK.....	Pennsylvania
A.B. 1924, George Washington University	
LUCY KNIGHT HEYL.....	District of Columbia
A.B. 1925, George Washington University	
MATTHEW JAMES HOUSE.....	Texas
A.B. 1925, George Washington University	
CARLTON SAVAGE.....	Oregon
B.S. 1921, University of Oregon	
CLARA PARKER SULLIVAN.....	Georgia
B.Litt. 1911, Bureau College	
GEORGE ELIJAH TASH.....	Maine
B.S. 1925, Colby College	
MARGARET EVA WHITZELL.....	District of Columbia
A.B. 1923, George Washington University	

## Bachelor of Arts

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NINA M. BOOTH.....	New York
LILY BRUNDSCHWIG.....	Switzerland
(With Distinction)	
SIMPLICIO GEMENTIZA BUCIA.....	Philippine Islands
LOREN BURRITT.....	Maryland
B.S. 1917, University of Maryland	
JESSE SHARPLESS CHENEY.....	Virginia
GEORGE W. CLARVOE.....	District of Columbia
MARY JOSEPHINE CARTER COLE.....	Pennsylvania
MURRAY MARION FLACK.....	Texas
BERNARDO BARNACHEA GAFUZ.....	Philippine Islands
LL.B. 1926, Georgetown University	
EDITH MARY HAYDON.....	Virginia
JOHN GEORGE INGOLD.....	District of Columbia
M.D. 1909, University of Illinois	
MARCUS URBAN LYONS.....	Indiana



MABEL NOELL	Virginia
LOTTIE MILDRED PEIRCE	Ohio
ROBERT SKLIAR	District of Columbia
(With Distinction)	
THOMAS DALE STEWART	Pennsylvania
CARL ROBERT SWINSON	Wisconsin
NADEGDA TCHOMONEVA	Bulgaria
MARY VIRGINIA WATKINS	South Carolina
CHARLES WILLARD WEBB	Maryland
MARTIN LESTER WEITZ	New York

#### Bachelor of Science in Civil Engineering

JOSEPH BLACKSTONE GOLDSMITH	Virginia
IRL H. POLK	Mississippi

#### Bachelor of Arts and Bachelor's Diploma in Education

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(With Distinction)	
ELLA MARGARET CROOK	District of Columbia
(With Distinction)	
CECILIA PINKNEY DULIN	District of Columbia
HELEN GERTRUDE GANTLEY	District of Columbia
AGNES FREDERICKA GARRELS	District of Columbia
(With Distinction)	
ELIZABETH STANTON LEWIS	District of Columbia
EVA ANITA LEWIS	District of Columbia
ALMA GRACE LIND	District of Columbia
(With Distinction)	
ELLA MILLER	District of Columbia
MARTHA HAMILTON NEAL	Florida
A.B. 1908, Winthrop College	
CLYDE ROBERTS	Mississippi
(With Distinction)	
MARY ROSELLA ROUSE	Virginia
JULIA CRAWFORD TALIAFERRO	Virginia

#### Doctor of Medicine

HENRY LYNN COLVIN	District of Columbia
ABRAM ELLISON SOMMER	New York

#### Bachelor of Laws

RICHARD HAROLD AKERS	Maryland
B.S. 1912, University of Virginia	
B.C.S. 1917, New York University	
FOREST FLORIAN BARTL	Indiana
EDWARD BELKNAP BEALE	District of Columbia
Ch.E. 1923, Lehigh University	
JOHN GOUGE BIRKS	Illinois
A.B. 1922, Millikin University	
CARL EGBERT DARLING	New York
WILLIAM LATTIMORE DOUDEN	New York
WILLARD WADDINGTON GATCHELL	District of Columbia
OLOF ALFRED GUSTAFSON	Connecticut
GEORGE SANDS HASTINGS	District of Columbia
A.B. 1922, George Washington University	

WILLIAM ULYSSES KIRSCH.....	District of Columbia
B.C.S. 1918, New York University	
MAX KOSSOW.....	District of Columbia
JOSEPH LEAVINSON.....	District of Columbia
HOWARD PALMER LOCKE.....	North Carolina
RONALD NYMAN MARQUIS.....	Oklahoma
A.B. 1924, George Washington University	
ROBERT BRUCE MCKNIGHT.....	Utah
HOMER SCOTT PATTERSON.....	Georgia
A.B. 1924, George Washington University	
ROBERT DUPREE PETERSON.....	Texas
EDWARD LEE POTTER.....	District of Columbia
A.B. 1910, Washington and Lee University	
JOSEPH ROSSMAN.....	Pennsylvania
B.S. in Ch.E. 1922, University of Pennsylvania	
JOHN GEORGE SHARBARO.....	New Jersey
B.S. 1917, Columbia University	
WALTER BOYD SCARBOROUGH.....	Texas
GEORGE JESSE SCHOTTLER.....	Minnesota
B.S. in E.E. 1923, University of Minnesota	
HOWARD SOMERVELL.....	District of Columbia
Naval Architect and Marine Engineer 1923, Webb Institute	
THOMAS FRANKLIN STEWART.....	District of Columbia
B.S. in C.E. 1923, George Washington University	
EDWARD LAFAYETTE UPDIKE.....	Virginia

## Master of Laws

FRANCIS WILLIS BROWN.....	District of Columbia
A.B. 1924, George Washington University	
LL.B. 1926, George Washington University	
JOHN DONALD DEFEO.....	Connecticut
LL.B. 1926, George Washington University	
ISIDOR MORRIS LAVINE.....	Virginia
LL.B. 1925, George Washington University	
HARRY PRICE.....	Pennsylvania
B.S. in Ch. E. 1923, University of Pennsylvania	
LL.B. 1926, George Washington University	



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(The number enclosed in parentheses indicates the page in this catalogue on which may be found the degrees and title of the officer.)

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ADAMS, L. H. (17)	Geophysical Laboratory
AITON, M. E. (17)	2033 G St.
AKERS, S. B. (19)	Institute of Economics
ALDEN, L. R. (16)	3840 Harrison St.
ALMQUIST, J. A. (17)	2844 Wisconsin Ave.
AMBLER, J. A. (17)	Bureau of Chemistry
AMES, N. B. (16)	113 Webster St.
ANDERSON, H. F. (197)	Emergency Hospital
ARNOLD, E. C. (244)	1816 Belmont Rd.
ASPINWALL, C. A. (7)	1140 15th St.
BAKER, C. D. (18)	1724 Que St.
BAKER, S. B. (17)	2020 Eye St.
BALLINGER, W. M. (197)	3028 45th St.
BARR, K. M. (197)	Gallinger Memorial Hospital
BARTSCH, PAUL (15)	1456 Belmont St.
BASSLER, R. S. (15)	6704 5th St., Takoma Park, D. C.
BAYNE, J. B. (197)	Children's Hospital
BEALL, C. B. (18)	College Park, Md.
BEMENT, D. (18)	1747 F St.
BEMIS, S. F. (16)	1834 16th St.
BENETEAU, A. M.-G. (18)	916 Michigan Ave.
BERGER, C. P. (195)	810 Fern St.
BERLINER, J. F. T. (19)	2112 F St.
BERNTON, H. S. (194)	2013 O St.
BERRY, W. J. (18)	18 Seaton Pl.
BIBB, A. B. (15)	1730 H St.
BIRNIE, D. P. (7)	2029 Connecticut Ave.
BLAND, W. M. (195)	Colmar Manor, Brentwood, Md.
BLOEDORN, W. A. (191)	2725 13th St.
BLUME, C. (18)	1334 8th St.
BOLTON, B. R. (197)	3418 13th St.
BOLWELL, R. W. (16)	"Southport," R.F.D. No. 2, Silver Spring, Md.
BORDEN, D. L. (191)	2337 Ashmead Pl.
BORDEN, W. C. (10)	2306 Tracy Pl.
BOSWORTH, R. J. (192)	2131 O St.
BOWEN, G. H. (196)	George Washington University Hosp.
BOWMAN, P. W. (18)	4520 14th St.
BOWMAN, (M.Q.), Mrs. P. W. (18)	4520 14th St.
BOYD, J. I. (194)	1755 Church St.
BRADLEY, L. F. (10)	1610 Tuckerman St.
BRANDENBURG, E. C. (244)	1824 Calvert St.
BRATTAIN, P. (17)	228 10th St. N. E.
BREEDING, E. C. (194)	1801 Eye St.
BREEN, M. C. (17)	4411 17th St.
BRIGGS, W. P. (162)	237 9th St. N. E.

BRIGHAM, G. R. (17)	1626 Rhode Island Ave.
BRILMYER, G. J. (192)	601 Jefferson St.
BROOCKS, E. B. (197)	Children's Hospital
BROOKS, R. A. (197)	Episcopal Eye, Ear, Nose and Throat Hospital
BROWN, T. B. (16)	10 Mason St., Cherrydale, Va.
BURCHELL, N. L. (7)	817 14th St.
BUTLER, W. K. (188)	1207 M St.
BYERS, J. D. (198)	65 M St., Apt. 103
CAJIGAS, T. (189)	1834 16th St.
CAMPBELL, C. B. (156)	1731 Lamont St.
CARROLL, MRS. M. (17)	2320 20th St.
CASTELL, L. B. (196)	1801 Eye St.
CHACE, D. C. (18)	6 W. Virgilia St., Chevy Chase, Md.
CHACE, MRS. D. C. (19)	6 W. Virgilia St., Chevy Chase, Md.
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CHURCHILL, G. M. (16)	505 River Rd., Bethesda, Md.
CLAUD, H. L. (196)	2701 Connecticut Ave.
CLAYTOR, T. A. (192)	1826 R St.
CLEPHANE, W. C. (244)	6000 Connecticut Ave., Chevy Chase, Md.
COE, F. O. (197)	601 Park Lane, Battery Park, Beth- esda, Md.
COHEN, L. (15)	3100 Connecticut Ave.
COLE, H. E. (196)	639 E. Capitol St.
COLLIER, C. S. (244)	1631 S St.
CONKLIN, C. B. (190)	1801 Eye St.
CORBETT, S. M. (189)	Arlington, Va.
CORBY, K. W. (7)	1001 15th St.
CORLISS, J. (18)	2331 Cathedral Ave.
COX, J. W. (244)	1850 Monroe St.
CRANDALL, N. I. (16)	2301 Connecticut Ave.
CROISSANT, D. C. (15)	1717 Que St.
CRUM, H. W. (18)	3028 Porter St.
CULLOM, E. (18)	1717 Riggs Pl.
CULVER, C. W. (194)	1425 Columbia Rd.
DABNEY, V. (190)	1633 Connecticut Ave.
DAVIS, H. C. (7)	The Portner
DAVIS, M. D. (17)	U. S. Bureau of Education
DAVIS, W. T. (189)	1601 23rd St.
DEFANDORF, J. H. (191)	4501 Leland St. N.W.
DEIBERT, A. T. (17)	2009 Belmont Rd.
DEMAS, C. J. (196)	1301 Massachusetts Ave.
DENTON, M. C. (16)	1857 Lamont St.
DESSAUSURE, R. L. (196)	1632 S St.
DICKINSON, A. (199)	1630 P St.
DINWIDDIE, E. W. (17)	3027 Que St.
DONALDSON, J. (16)	2310 Ashmead Pl.
DONNALLY, H. H. (189)	1612 Eye St.
DOYLE, H. G. (10)	5500 33rd St.
DUTTON, H. H.	1324 Euclid St.



EARLEY, J. H. (196)	2210 Nicholas Ave. S.E.
EARNST, J. P. (244)	3718 Huntington St.
EARNST, J. P., Jr. (191)	3718 Huntington St.
EASTERDAY, H. C. (156)	3214 Macomb St.
EDGERTON, H. W. (244)	3611 Norton Pl.
EDSON, J. J. (7)	915 F St.
EHRMAN, H. A. (18)	4510 Walsh St., Chevy Chase, Md.
EICHLIN, C. G. (18)	1464 Chapin St.
ELDRIDGE, W. W. (194)	St. Elizabeth's Hospital
ELLISON, E. M. (195)	1720 M St.
EMMETT, P. H. (17)	2608 36th Pl.
ERWIN, J. T. (15)	1824 G St.
EVANS, Mrs. J. (7)	3405 Lowell St.
FADELEY, J. M. (196)	1737 H St.
FARNHAM, G. (17)	2943 Macomb St.
FLATHER, W. J. (7)	Riggs National Bank
FLEMER, L. (156)	701 Maryland Ave. N.E.
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FOURCHY, R. (18)	1918 K St.
FOWLE, F. E. (17)	2919 Que St.
FREDERICK, C. L. (18)	Arlington, Va.
FREEMAN, W. (190)	3039 Que St.
FRENCH, L. H. (190)	1339 H St.
FRENCH, O. B. (16)	3420 36th St.
FRYER, W. T. (244)	2229 Bancroft Pl.
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GARFINCKEL, J. (7)	F St at 13th
GILCHRIST, R. (17)	Bureau of Standards
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GLOVER, C. C., Jr. (7)	1508 H St.
GOODMAN, W. D. (196)	4201 New Hampshire Ave.
GOODWIN, E. H. (7)	3038 N St.
GOOKIN, E. R. (197)	1808 Eye St.
GORE, J. H. (15)	2210 R St.
GRAYSON, S. M. (196)	1631 S St.
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GROOVER, T. A. (191)	1603 16th St.
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GROSVENOR, G. (7)	National Geographic Society
HAGNER, F. R. (188)	1824 19th St.
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HALL, R. W. (192)	1800 Belmont Rd.
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HARPER, J. (16)	3806 Yuma St.
HARRIMAN, E. A. (244)	1302 18th St.
HARRIS, A. L. (15)	728 17th St.
HARRIS, J. (196)	George Washington University Hosp.
HAWFIELD, J. (197)	Emergency Hospital
HAWS, R. J. (197)	St. Elizabeth's Hospital
HELFGOTT, M. A. (196)	George Washington University Hosp.
HENDERSON, E. P. (19)	U. S. Geological Survey
HENNING, C. (193)	1610 Eye St.
HENNING, G. N. (10)	3720 McKinley St.

HERBERT, C. W. (18)	3707 35th St.
HERTLE, L. (7)	Gunston Hall, Lorton, Va.
HERSCHMANN, M. J. (197)	Burlington Hotel
HERZMARK, M. H. (196)	2927 Tilden St.
HIDEN, R. B. (196)	The Connecticut
HILL, C. E. (15)	35 Sycamore Ave., Takoma Park, D. C.
HILL, E. A. (16)	2246 Cathedral Ave.
HITCHCOCK, F. A. (16)	5205 Wisconsin Ave.
HODGRINS, H. G. (16)	1746 K St.
HODGRINS, H. L. (10)	1821 Kalorama Rd.
HOFFMAN, H. S. (196)	George Washington University Hosp.
HOLMES, C. W. (10)	2033 G St.
HOLT, W. S.	26 Jackson Pl.
HORNADAY, F. A. (193)	3509 14th St.
HORNTHAL, H. A. (196)	George Washington University Hosp.
HOUGH, W. H. (192)	1901 Eye St.
HOUGHTON, J. E. (16)	1801 Eye St.
HUMPHREYS, W. J. (15)	Cecil Apts.
HUNT, F. L. (17)	Bureau of Standards
HUNT, T. (19)	Berwyn, Md.
HUNTER, O. B. (10)	31 E. Oxford St., Chevy Chase, Md.
HURST, D. (19)	2033 G St.
HYDE, C. W. (17)	The Parkwood
IRISH, O. J. (191)	906 Emerson St.
JACKSON, V. B. (196)	1801 K St.
JARMAN, B. L. (197)	Episcopal Eye, Ear, Nose and Throat Hospital
JENKINS, G. B. (189)	1336 Ingraham St.
JOHANNESSEN, W. N. (199)	The Farragut
JOHNSON, A. F. (16)	2009 Belmont Rd.
JONES, C. K. (17)	214 13th St. N.E.
KAIN, H. G. (196)	58 T St.
KANE, H. F. (191)	The Ontario
KAYSER, E. L. (10)	2031 F St.
KERN, R. R. (15)	The Iowa
KERR, H. H. (190)	1744 N St.
KIMBERLY, A. E. (19)	2033 G St.
KINCANNON, L. J. (10)	1910 K St.
KING, W. B. (7)	1822 Wyoming Ave.
KING, W. B. (192)	338 Addison Ave., Virginia Highlands, Va.
KITTREDGE, H. E.	808 22nd St.
KLINE, G. M.	5622 9th St.
KNIGHT, N. L.	3216 Walnut St. N.E.
KNOTT, C. O. (196)	1006 Eye St. S.E.
KOTZ, J. (196)	2824 Connecticut Ave.
KRAMER, C. E. (18)	College Park, Md.
KRAMER, S. E. (7)	Franklin School Bldg.
LAMAR, E. S. (18)	Rockville, Md.
LAMON, L. (237)	1339 H St.
LAPHAM, J. R. (10)	807 Quackenbos St.
LARNER, J. B. (7)	Washington Loan & Trust Co.
LaSALLE, J. E. (17)	2901 Connecticut Ave.
LATIMER, J. W. (244)	14 Newlands St., Chevy Chase, Md.



LAWSON, H. W. (189)	1717 N St.
LEADHETTER, G. W. (195)	1731 Columbia Rd.
LEE, E. M. (18)	1808 Kilbourne Pl.
LEE, T. S. (193)	2109 O St.
LEWIS, E. (197)	Children's Hospital
LEWIS, N. D. C. (16)	St. Elizabeth's Hospital
LIDE, J. S.	George Washington University Medical School
LIND, J. E. (195)	St. Elizabeth's Hospital
LISNER, A. (7)	1723 Massachusetts Ave.
LOWREY, V. B. (18)	4444 Reservoir Rd.
LUNDBERG, E. O.	2311 Connecticut Ave.
LYONS, J. H. (194)	1344 19th St.
MCARTHUR, L. E. (16)	610 Lamont St.
McCLOSKEY, W. T. (18)	Beaumont, Alexandria, Va.
McGURK, L. (17)	2033 G St.
McLendon, P. A. (194)	2002 R St.
McNEIL, H. C. (15)	1210 Decatur St.
MACATEE, H. C. (189)	The Rochambeau
MACKALL, C. M. (16)	1812 K St.
MAIN, D. C. (194)	St. Elizabeth's Hospital
MALLORY, W. J. (190)	1720 Connecticut Ave.
MANN, C. R. (7)	26 Jackson Pl.
MARBURY, W. B. (192)	1015 16th St.
MARTYN, H. E. (195)	Cumberland Apt.
MARVIN, C. H. (10)	3228 Cleveland Ave.
MASON, J. P. (18)	3224 13th St.
MASON, J. R. (18)	2023 G St.
MASON, L. M. (196)	1321 21st St.
MAY, O. E. (18)	1819 G St.
MERRILL, G. P. (15)	1422 Belmont St.
MERRITT, E. A. (193)	9312 Kensington Rd., North Chevy Chase, Md.
MEYER, J. F. (17)	3727 Jocelyn St.
MICHELSON, T. (15)	1416 20th St.
MIDDLETON, W. (17)	East Falls Church, Va.
MILLER, C. A. (244)	2531 Que St.
MILLER, G. B. (192)	1730 K St.
MINOR, J.	1629 21st St.
MITCHELL, J. E.	1428 K St.
MITCHELL, J. F. (192)	1344 19th St.
MOLL, W. L. (244)	1705 Lanier Pl.
MOODY, T. (196)	500 G St. N.E.
MOORE, W. C. (190)	1824 Massachusetts Ave.
MORAN, R. E. (196)	1532 16th St.
MORRISON, R. L. (199)	The Rochambeau
MOSS, F. A. (16)	209 Virginia Ave., Clarendon, Va.
MUNROE, C. E. (15)	Forest Glen, Md.
NEILL, T. E. (193)	1824 Massachusetts Ave.
NEWHOUSE, B. (196)	1136 6th St.
NEWMAN, H. (10)	705 Plaza Apts.
NORDLINGER, G. (196)	3113 N St.
NOYES, T. W. (7)	The Evening Star
O'CONNELL, F. C. (244)	1108 Allison St.
OLEINIK, J. C. (18)	1852 Ontario Pl.
O'MALLEY, M. (194)	St. Elizabeth's Hospital

OMWAKE, K. (19)	1854 Ontario Pl.
ONG, H. A. (191)	The Rochambeau
OSBORNE, R. F. (196)	706 K St. N.E.
PAGE, R. M. (196)	Connecticut Apts.
PANARETOFF, S. (17)	1910 Kalorama Rd.
PARKER, B. W. (244)	Woodward Bldg.
PARKER, E. B. (7)	U. S. Chamber of Commerce
PATTON, W. F. (196)	1746 K St.
PAYNE, J. B. (7)	1601 Eye St.
PEABODY, J. W. (195)	4107 14th St.
PEELE, S. J. (244)	2400 16th St.
PENDEXTER, R. S. (194)	The Champlain
PETER, A. (7)	2091 16th St.
PHILBRICK, M. H. (237)	1339 H St.
PHILLIPS, F. M. (18)	1433 Shepherd St.
PICCON, H. D. (17)	220 Star Bldg.
PLATT, J. H. (16)	1342 Jefferson St.
POOLE, M. S. (19)	2033 G St.
POWERS, J. O. (16)	822 Emerson St.
PROTZMAN, M. I. (17)	300 Jefferson Ave., Aurora Hills, Va.
RAGATZ, L. J. (17)	2146 F St.
RANDOLPH, B. M. (189)	2010 R St.
REED, J. A. (196)	3100 Connecticut Ave.
RESSER, C. E. (16)	2805 35th St.
REUTER, F. A. (195)	1337 Park Rd.
RICHARDSON, C. W. (188)	1337 Connecticut Ave.
RICHARDSON, E. E. (15)	1001 Alabama Ave. S.E.
RICHMOND, W. V. (17)	1743 Corcoran St.
RIDDICK, A. L. (196)	1200 16th St.
RISK, W. A. (197)	Tuberculosis Hospital
ROE, J. H. (16)	1906 N St.
ROESER, W. F. (18)	2900 Que St.
ROGERS, J. F. (17)	U. S. Bureau of Education
ROLLS, J. A.	4906 Georgia Ave.
ROSE, A. L. (10)	1910 K St.
ROSS, W. W. (244)	1633 29th St.
ROTH, G. B. (190)	3814 T St.
RUEDIGER, W. C. (10)	2836 28th St.
RUFFIN, S. (188)	Connecticut Apts.
RUSSELL, V. H.	George Washington University
SAWYER, L. L. (197)	The Farragut
SCHAPIRO, I. (15)	1907 15th St.
SCHMIDT, A. F. W. (10)	35 Bryant St.
SCHOENFELD, H. H. (196)	Wardman Park Hotel
SCHOFF, E. R.	1335 H St.
SCHREIBER, H. R. (195)	500 H St. N.E.
SCHUYLER, P. K. (16)	Bureau of Public Roads
SCOTT, I. D. (17)	1905 G St.
SEHRY, E. H. (16)	1844 Columbia Rd.
SHANDS, A. R. (192)	901 16th St.
SHEPARD, E. S. (19)	3267 N St.
SHERIDAN, W. T. (195)	McLean, Va.
SHIVERS, T. J. (195)	1335 H St.
SHUTE, D. K. (188)	1727 DeSales St.
SILVESTER, R. L. (193)	3501 Lowell St.
SIMPSON, C. A. (190)	1610 20th St.



SIMS, W. B. (197)	Emergency Hospital
SMILER, N. N.	1912 16th St.
SMITH, A. L. (17)	1855 Calvert St., Apt. 31
SMITH, C. S. (15)	304 Takoma Ave., Takoma Park
SNOWDEN, E. (195)	1712 21st St.
SOLNITZKY, O. (18)	109 E. Thornapple St., Chevy Chase, Md.
SPAULDING, H. G. (244)	1423 Madison St.
SPEIDEL, F. G. (194)	The Rochambeau
SPENCER, H. B. (7)	2012 Massachusetts Ave.
STAFFORD, W. P. (244)	1725 Lamont St.
STALLARD, C. W. (197)	Emergency Hospital
STAVELY, A. L. (192)	1744 M St.
ST. CLAIR, F. A. (196)	1458 Clifton St.
STEIN, J. (195)	1326 8th St.
STOUT, J. D. (190)	3000 Porter St.
STUART, D. D. V., Jr. (195)	Wyoming Apts.
SUTTON, H. G. (16)	105 W. Underwood St., Chevy Chase, Md.
SUTTON, L. H. (244)	1320 Gallatin St.
SWISHER, C. C. (15)	1810 Kalorama Rd.
TEWKSBURY, W. D. (193)	Medical Science Bldg.
THOMPSON, B. B. (198)	1339 H St.
THOMPSON, J. L. (193)	3610 Idaho Ave.
THUNEY, F. E. (198)	216 Upshur St.
TIBBETS, A. P. (196)	1430 Rhode Island Ave.
TILLEMA, J. A. (17)	1923 N St.
TITUS, E. W. (191)	The Rochambeau
TOWNSEND, J. W. (244)	Albee Bldg.
TUCKERMAN, W. R. (7)	Bethesda, Md.
VAN EVERA, B. D. (18)	2119 H St., Apt. 810
VAN ORSTRAND, C. E. (17)	1607 31st St.
VAN VLECK, W. C. (10)	4120 Harrison St.
VAZQUEZ, A. C. (18)	25 Michigan Ave. N.E.
VON SCHWERDTNER, E. O. (18)	Johns Hopkins University, Baltimore, Md.
WALLIS, W. J. (18)	1720 Kenyon St.
WARDMAN, H. (7)	1437 K St.
WARNER, O. N. (190)	Providence Hospital
WEEMS, B. F. (195)	1746 K St.
WEISZ, E. (18)	515 20th St.
WEST, W. R. (17)	658 5th St. N.E.
WHITCOMB, E. S. (17)	2800 Adams Mill Rd.
WHITE, C. S. (191)	1801 Eye St.
WHITE, W. A. (188)	St. Elizabeth's Hospital
WILBUR, W. A. (10)	3816 Military Rd.
WILLIAMS, V. B. (197)	3624 Davis St.
WILLIMAN, F. L. (196)	2731 Connecticut Ave.
WINE, E. C. (19)	2033 G St.
WOLFE, A. S.	1710 Rhode Island Ave.
WOLFORD, M. G. (195)	1355 Spring Rd.
WOODHULL, C. H. (7)	1767 Massachusetts Ave.
YARROW, H. C. (188)	814 17th St.
YOUNG, F. A. (18)	George Washington University
YOUNG, W. G.	3228 Cleveland Ave.
ZIBBS, L. (17)	1634 Eye St.





Volume XXVI

Number 4.

THE  
GEORGE  
WASHINGTON  
UNIVERSITY

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REPORT OF THE TREASURER  
1926-1927



WASHINGTON, D. C.





THE  
GEORGE  
WASHINGTON  
UNIVERSITY

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REPORT OF THE TREASURER  
For the year ended August 31, 1927







## Report of the Treasurer.

October 10, 1927.

THE BOARD OF TRUSTEES OF THE GEORGE WASHINGTON UNIVERSITY:

GENTLEMEN: I have the honor to submit herewith a report, certified by F. W. Lafrentz and Company, Public Accountants, showing in detail the financial operations of the University for the fiscal year ended August 31, 1927, and exhibiting the state of the Trust Funds, as required by the By-Laws of the University.

The Total Net Resources of the University as at August 31, 1927, were \$2,058,748.19, a gain for the year of \$37,093.69, as shown in the following summary of Assets and Liabilities.

### COMPARATIVE SUMMARY OF ASSETS AND LIABILITIES, 1925-26 AND 1926-27

Assets					
	1925-26	1926-27	Increase	Decrease	Net Increase
Cash, General Funds....	\$17,564.61	\$21,433.72	\$3,869.11		
Cash, Endowment Income.....	23,694.11	7,604.85		\$16,089.26	
Endowment and Trust Funds.....	855,868.73	897,258.38	41,389.65		
Real Estate, exclusive of Endowment Funds....	1,640,251.88	1,665,751.88	25,500.00		
Library Books.....	66,072.72	70,169.90	4,097.18		
Equipment.....	217,368.61	225,080.03	7,711.42		
Perpetual Insurance Deposits.....	1,406.25	1,406.25			
Accounts Receivable....	27,674.60	9,481.89		18,192.71	
Prepaid Expenses.....	1,290.48			1,290.48	
	<u>\$2,851,191.99</u>	<u>\$2,898,186.90</u>	<u>\$46,994.91</u>	<u>\$35,572.45</u>	<u>\$46,994.91</u>
Liabilities					
	1925-26	1926-27	Increase	Decrease	Net Increase
Notes Payable.....	\$471,500.00	\$472,500.00	\$1,000.00		
Liability to Endowment Funds.....	340,881.55	340,881.55			
Accrued interest not due.	5,245.93	5,669.77	423.84		
Prepaid Tuition.....	8,913.00	8,563.00		\$350.00	
Prepaid Hospital Accounts.....	2,787.88			2,787.88	
Reserve for prize not awarded.....	209.13	175.00		34.13	
Accounts Payable.....		11,819.39	11,819.39		
	<u>\$829,537.49</u>	<u>\$839,438.71</u>	<u>\$9,901.22</u>	<u>\$3,372.01</u>	<u>\$9,901.22</u>
Total Net Resources.....	<u>\$2,021,654.50</u>	<u>\$2,058,748.19</u>			
Increase of Net Resources 1926-27.....		<u>37,093.69</u>			

**Endowment and Trust Funds** were increased during the year \$41,389.65 as follows: 1923-24 Campaign Fund, \$19,800.00; Third Columbian Women Scholarship Fund, \$740.00; D. C. Chapter Daughters of American Revolution Loan Fund, \$691.56; Denman Law Fund, \$114.57; Jacques Law Fund, \$305.94; Jacques Medical Fund, \$201.66; Mayer Hospital Fund, \$264.90; Reserve for the protection of investments, \$38.56; Pharmacy Fund, \$18,798.93; Lafayette Memorial Fund, \$75.93; Maury Memorial Fund, \$220.15; Swisher Book Fund, \$266.25; Endowment Restoration and Accretion Fund, \$149.08; Law Building Fund, \$11.47; Chemistry Building Fund, \$7.02; Unit No. 3 Fund, \$10,032.51; Class of 1929 Unit No. 3 Fund, \$74.67; Medical Building Fund, \$100.00, a gross increase of \$51,893.20; from which was deducted a decrease in Executory Trust Funds as follows: Stockton Memorial Fund, \$266.58; International Debating Fund, \$637.84; and General Building Fund, \$9,599.13, a total decrease of \$10,503.55.

**New Trust Funds** (included in the preceding paragraph) were received as follows: Pharmacy Fund, \$18,798.93; Swisher Book Fund, \$266.25; Class of 1929 Unit No. 3 Fund, \$74.67; Medical Building Fund, \$100.00.

**Real Estate** used for educational purposes is valued at \$1,665,751.88, an increase of \$25,500.00. The increase is accounted for as follows:

Purchase of 704 20th Street, N. W...	\$12,000.00
Balance purchase 2009-11 G St., N. W.	33,500.00
	<hr/>
	45,500.00
Less sale of 808 Eye Street.....	20,000.00
	<hr/>
	25,500.00

**Notes Payable** are outstanding against the General Funds amounting to \$472,500.00, secured by mortgages, as follows:

1016 Thirteenth Street, Nurses Home	\$4,500.00
2010-12 H Street, Gymnasium.....	16,000.00
725 Twenty-first Street, Corcoran Hall	220,000.00
2026 H Street, offices.....	6,000.00
2024 H Street, offices.....	8,000.00
720 Twentieth Street, Stockton Hall..	150,000.00
2100 G Street, Building "A".....	20,000.00
2009-11 G Street, Women's Building.	40,000.00
704 Twentieth Street.....	8,000.00
	<hr/>
	\$472,500.00

**Notes Payable** against the Lewis Endowment Fund amount to \$45,000.00. The property bequeathed by Dr. S. E. Lewis is valued at \$148,004.15. To clear the estate and to enable the Executor to transfer the property to the University, the Board of Trustees authorized the placing of the \$45,000.00 mortgage, leaving a net valuation of the Lewis Endowment Fund of \$103,004.15.

**Laboratory Equipment and Furniture** are valued, after depreciation, at \$225,080.03, an increase of \$7,711.42.

**Books in the Libraries** are valued, after depreciation, at \$70,169.90, an increase of \$4,097.18.



# REPORT OF THE TREASURER

5

Contributions, other than those reported under Trust Fund increases, were received during the year as follows:

For Prizes, \$565.00; for Swisher Library Fund, \$500.00; for Medical convention expenses, \$131.58; for payment on Gymnasium, from Student Activities, \$2,000.00; for reimbursement on repairs, from Student Activities, \$1,201.78, a total of \$4,398.36.

Property Under Lease used for educational purposes:

2022 G Street at \$1,800.00 per annum  
714 Twentieth Street at \$1,020.00 per annum  
2016 H Street at \$600.00 per annum

Accounts Receivable from students amount to \$4,904.44, or .00726 per cent of the total student charges at the close of the fiscal year August 31, 1927, the lowest deficiency ever reported.

Cash Receipts and Payments for the fiscal year are summarized as follows:

Cash in bank September 1, 1926.....	\$11,812.25	
Cash received 1926-27.....	881,587.35	\$893,399.60
Disbursements, 1926-27.....	874,771.05	
Cash in bank August 31, 1927.....	18,628.55	

A statement in detail of cash receipts and payments for the fiscal year is shown in Exhibit "L" of this report.

CHARLES W. HOLMES,  
*Treasurer.*

## Certificate of the Auditor.

October 5, 1927

We have examined the accounts and records of the GEORGE WASHINGTON UNIVERSITY for the year ended August 31, 1927.  
Our report, including Exhibits, is as follows:

**EXHIBIT** "A"—Balance Sheet.  
 "B"—Surplus.  
 "C"—Revenue Account.  
 "D"—Department of Arts and Sciences.  
 "E"—Department of Arts and Sciences—Summer School.  
 "F"—Law School.  
 "G"—Law Summer School.  
 "H"—Medical School.  
 "I"—College of Pharmacy.  
 "J"—University Hospital.  
 "K"—University Cafeteria.  
 "L"—Statement of Cash Receipts and Payments.  
 "M"—Trust Funds.  
 "N"—Endowment Funds Investments.  
 "O"—Executory Trust Funds Investments.  
 "P"—Endowment and Executory Trust Funds, Income and Expense.

Cash: \$21,433.72.

We counted the cash on hand September 1, 1927, and reconciled the Cash Account with the bank account as at August 31, 1927.

Accounts Receivable: \$9,481.89.

This amount consists of Fees, etc., due for the term of 1926-1927 from students in various departments, and other Accounts Receivable, as follows:

School of Graduate Studies.....	\$122.62
Columbian College.....	1,523.99
College of Engineering.....	377.31
Teachers College.....	67.75
Summer School.....	85.69
Law School.....	\$1,165.78
Law Summer School.....	532.00
Medical School.....	1,697.78
College of Pharmacy.....	706.56
Accounts due University Hospital from patients for the year 1926-1927.....	135.11
Student Activities.....	4,567.45
Delta Zeta Fraternity.....	187.63
	10.00
	\$9,481.89



CERTIFICATE OF THE AUDITOR

7

The balances standing in accounts due at September 1, 1926, remaining unpaid as at August 31, 1927, are considered worthless and were charged to Surplus.

DEPRECIATION:

Depreciation on the Library Books, and Equipment was charged off to the amount of \$4,996.16.

NET INCOME:

The Net Income for the year from all departments including the University Hospital, was \$2,522.14, as shown by Exhibit "C".

SURPLUS: \$1,153,884.96.

The changes in this account since August 31, 1926, are shown by Exhibit "B".

TRUST FUNDS:

We inspected or had confirmed to us by the depositories the securities representing the investments of the Endowment and Executory Trust Funds, in stocks, bonds, and notes, as per Exhibit "N" and "O". The notes are without arrears for interest.

We verified the cash balances as at August 31, 1927, representing uninvested principal \$47,614.86, and unexpended income \$7,604.85 of the Endowment and Executory Trust Funds with the bank accounts.

Respectfully submitted,

F. W. LAURENTZ & Co.,  
Certified Public Accountants.  
(Formerly The American Audit Co.)





GENERAL ACCOUNTS







## REPORT OF THE TREASURER

## EXHIBIT "B."

## SURPLUS

As at August 31, 1927.

Balance September 1, 1926..... \$1,142,091.66

*Add:*

Old Accounts Collected.....	\$795.61	
Additional Tuition Prior Year.....	457.60	
Administration Rents Prior Year.....	285.00	
Potomac Electric Power Company, Re- fund Prior Years.....	2,841.90	
From Treasurer of Building Fund.....	30,000.00	
Net Income of University for the year ended August 31, 1927, transferred from Revenue Account, Exhibit "C".....	2,522.14	36,902.25
		<u>\$1,178,993.91</u>

*Deduct:*

Uncollectible Accounts Prior Year.....	9,473.47	
Summer School Payroll Refunds on Prior Year.....	200.00	
Student Activities.....	2,249.40	
Music Department Petty Cash Fund....	25.00	
Loss on Sale of Pharmacy Property, 808 Eye Street.....	12,000.00	
Endowment Fund Campaign Expenses...	1,161.08	25,108.95
		<u>25,108.95</u>

Balance August 31, 1927, Exhibit "A"..... \$1,153,884.96

## EXHIBIT "C."—REVENUE ACCOUNT

For the year ended August 31, 1927.

*Income:*

Department of Arts and Sciences, Exhibit "D".....	\$601.62	
Law School, Exhibit "F".....	1,625.45	
Medical School, Exhibit "H".....	9,404.08	
College of Pharmacy, Exhibit "I".....	2,418.67	
University Hospital, Exhibit "J".....	1,959.22	(loss)
University Cafeteria, Exhibit "K".....	3,060.79	(loss)
Assessment for General Expenses:		
Department of Arts and Sciences, Exhibit "D".....	\$95,280.00	
Law School, Exhibit "F".....	21,000.00	
Medical School, Exhibit "H".....	10,000.00	
		<u>126,280.00</u>



## GENERAL ACCOUNTS

13

Income from Endowments for General Purposes.....	\$9,489.27	
Income from Other Sources:		
Graduation Fees.....	\$6,106.75	
Interest on Bank Deposits.....	1,746.26	
Duplicating Bureau.....	4,014.60	
Contributions from Medical Convention..	131.58	
Student Activities:		
Annual Payment on Gymnasium Bldg.....	\$2,000.00	
Repairs on Gymnasium Building.....	1,201.78	
Salaries.....	474.00	
	<u>3,675.78</u>	
Miscellaneous.....	297.00	
	<u>15,971.97</u>	
		\$160,771.05

*Expenses:*

Administrative Expenses:		
Administration Hall:		
Heat and Light.....	\$1,111.28	
Wages.....	2,504.51	
Repairs.....	662.69	
Supplies and Expense.....	474.76	
	<u>\$4,753.24</u>	
Advertising.....	2,938.55	
Auditing.....	750.00	
Commencement Expenses.....	6,092.28	
Depreciation of Equipment.....	253.68	
Duplicating Bureau.....	4,811.02	
Insurance.....	1,678.99	
Legal.....	250.00	
Sundry Supplies and Expenses.....	2,084.32	
Postage.....	3,993.56	
Salaries and Wages.....	62,440.75	
Surety Bond Premiums.....	192.50	
Stationery and Printing.....	3,967.45	
Telephone and Telegrams.....	2,508.98	
Transferred to Medical School, Exhibit "H".....	18,837.66	
Transferred to Arts and Sciences, Exhibit "D".....	10,280.00	
President's Emergency Expenses.....	2,211.16	
Traveling Expenses.....	2,880.41	
	<u>130,924.55</u>	
Interest.....	\$26,326.58	
Taxes.....	997.78	
	<u>27,324.36</u>	
		158,248.91
Net Income for the year ended August 31, 1927, transferred to Surplus Account, Exhibit "B".....		<u>\$2,522.14</u>

## EXHIBIT "D."

## DEPARTMENT OF ARTS AND SCIENCES.

For the year ended August 31, 1927.

*Income.*

<b>Tuition:</b>		
School of Graduate Studies.....	\$23,615.60	
Columbian College.....	261,780.72	
College of Engineering.....	49,979.42	
Teachers College.....	42,184.57	
		\$377,560.31
<b>Matriculation:</b>		
School of Graduate Studies.....	1,290.00	
Columbian College.....	6,358.00	
College of Engineering.....	1,044.00	
Teachers College.....	1,418.00	
		10,110.00
<b>Laboratory:</b>		
School of Graduate Studies.....	673.93	
Columbian College.....	7,329.66	
College of Engineering.....	2,446.42	
Teachers College.....	503.85	
		10,953.86
<b>Other Income:</b>		
<b>Rents:</b>		
Fraternity Rooms.....	\$2,072.00	
Dormitory Rooms.....	1,149.68	
Sundry.....	230.00	
		3,451.68
<b>Prizes:</b>		
Fraternity.....	85.00	
McCutchins.....	40.00	
Arthur B. Heaton.....	100.00	
McKeever.....	300.00	
Colonial Dames.....	34.13	
		559.13
<b>Transferred from Administration, Exhibit "C".....</b>		10,280.00
		14,290.81
		\$412,914.98

*Expenses.*

Salaries and Wages.....	\$248,907.60
Laboratories.....	8,503.46
Stationery and Printing.....	3,647.17
Library.....	1,014.61
McKeever Prizes.....	300.00
McCutchins Prizes.....	40.00
Arthur B. Heaton Prizes.....	100.00
Fraternity Prizes.....	85.00
Colonial Dames Prizes.....	34.13
Postage.....	565.93
Telephone.....	299.43
Proctors.....	801.00
Traveling Expense.....	133.55
Advertising.....	47.50
Duplicating Bureau.....	2,511.10
Depreciation on Equipment.....	2,563.39
Depreciation on Library Books.....	404.26
Miscellaneous Supplies and Expenses.....	3,427.07



## University Hall:

Wages.....	\$14,989.97	
Rent.....	4,795.00	
Heat and Light.....	12,748.70	
Repairs.....	14,122.22	
Ice.....	160.20	
Water.....	315.47	
Hauling.....	644.84	
Supplies and Expenses.....	2,324.95	
	<u>\$50,101.35</u>	
Transferred to General Fund, Exhibit "C"...	95,280.00	\$418,766.55
		<u>\$5,851.57</u>
(Loss)....		
Net Income Department of Arts and Sciences Summer School, transferred from Exhibit "E".....		6,453.19
Net Income, transferred to Revenue Account, Exhibit "C"...		<u>\$601.62</u>

## NOTE:

Tuition was provided by the Department of Arts and Sciences for which it received no monetary consideration, as follows:

Scholarships.....	\$14,028.23	
University Aid.....	3,531.63	
Ministerial Aid.....	1,729.74	
	<u>\$19,289.60</u>	

## EXHIBIT "E."

## DEPARTMENT OF ARTS AND SCIENCES—SUMMER SCHOOL.

For the year ended August 31, 1927.

*Income.*

Tuition.....	\$41,296.30	
Laboratories.....	1,469.65	
	<u>\$42,765.95</u>	

*Expenses.*

Salaries.....	\$34,850.00	
Advertising.....	886.35	
Stationery and Printing.....	78.60	
Duplicating Bureau.....	159.60	
Traveling Expenses.....	34.36	
Miscellaneous Supplies and Expenses.....	303.85	
	<u>36,312.76</u>	
Net Income, transferred to Department of Arts and Sciences, Exhibit "D".....		<u>\$6,453.19</u>

## EXHIBIT "F."

## LAW SCHOOL.

For the year ended August 31, 1927.

*Income.*

Tuition.....	\$90,748.50	
Matriculation.....	1,348.00	
Miscellaneous.....	488.88	
Contributions for Prizes:		
Herrick.....	\$25.00	
Ellsworth.....	25.00	
	<u>50.00</u>	
		\$92,635.38

*Expenses.*

Salaries and Wages.....	\$60,044.70	
Library.....	580.60	
Stationery and Printing.....	1,593.27	
Telephone and Telegrams.....	64.98	
Postage.....	153.54	
Advertising.....	1,075.02	
Herrick Prize.....	25.00	
Ellsworth Prize.....	25.00	
Examination Questions and Text.....	528.00	
Traveling Expenses.....	420.00	
Duplicating Bureau.....	111.87	
Ice.....	97.54	
Depreciation on Equipment.....	138.31	
Depreciation on Library Books.....	304.57	
Miscellaneous Supplies and Expenses.....	1,043.58	
	<u>66,205.98</u>	
Transferred to General Fund, Exhibit "C"...	21,000.00	
	<u>87,205.98</u>	
Law Hall:		
Wages.....	\$3,466.34	
Heat and Light.....	1,665.92	
Hauling.....	110.15	
Supplies and Expense.....	598.19	
Repairs.....	482.45	
	<u>6,323.05</u>	
		93,529.03
	(Loss)....	\$893.65
Net Income, Law Summer School, transferred from Exhibit "G".....		<u>2,519.10</u>
Net Income, transferred to Revenue Account, Exhibit "C".....		<u>\$1,625.45</u>



## GENERAL ACCOUNTS

17

## EXHIBIT "G."—LAW SUMMER SCHOOL

For the year ended August 31, 1927.

<i>Income.</i>		
Tuition.....	\$9,749.00	
Matriculation.....	235.00	
		<u>\$9,984.00</u>
<i>Expenses.</i>		
Salaries.....	\$7,110.00	
Advertising.....	130.80	
Stationery and Printing.....	200.10	
Duplicating Bureau.....	24.00	
		<u>7,464.90</u>
Net Income, transferred to Law School, Exhibit "F".....		<u>\$2,519.10</u>

## EXHIBIT "H"—MEDICAL SCHOOL.

For the year ended August 31, 1927.

<i>Income.</i>		
Tuition.....	\$91,216.99	
Matriculation.....	822.00	
Laboratory.....	5,312.55	
Endowment Funds Transferred:		
Lewis Fund.....	\$5,741.54	
Sharpe Fund.....	420.80	
		<u>6,162.34</u>
Rents, Medical Hall and Lockers.....	258.00	
		<u>\$103,771.88</u>
Transferred from Administration, Exhibit "C".....	18,837.66	
		<u>\$122,609.54</u>
<i>Expenses.</i>		
Salaries and Wages.....	\$78,440.47	
Laboratory.....	9,526.47	
Library.....	32.50	
Stationery and Printing.....	803.48	
Advertising.....	242.96	
Telephone and Telegrams.....	451.44	
Postage.....	164.76	
Traveling Expense.....	753.27	
Repairs to Equipment.....	746.01	
Depreciation:		
Equipment.....	\$1,251.42	
Library Books.....	80.53	
		<u>1,331.95</u>
Miscellaneous Supplies and Expenses.....	1,355.96	
		<u>93,849.27</u>
Transferred to Administration, Exhibit "C"....	10,000.00	
		<u>103,849.27</u>
Medical Hall:		
Wages.....	\$3,655.00	
Heat and Light.....	3,022.18	
Hauling.....	221.50	
Repairs.....	1,446.56	
Miscellaneous Supplies and Expenses.....	1,010.95	
		<u>9,356.19</u>
		<u>\$113,205.46</u>
Net Income, transferred to Revenue Account, Exhibit "C"....		<u>\$9,404.08</u>

## EXHIBIT "I."—COLLEGE OF PHARMACY.

For the year ended August 31, 1927.

<i>Income.</i>		
Tuition.....	\$4,090.27	
Laboratory.....	762.14	
		<u>\$4,852.41</u>
<i>Expenses.</i>		
Salaries and Wages.....	\$1,474.13	
Telephone and Telegrams.....	24.65	
Heat and Light.....	170.93	
Hauling.....	134.00	
Traveling Expenses.....	125.00	
Interest.....	220.00	
Advertising.....	27.50	
Miscellaneous Supplies and Expenses.....	257.53	
		<u>\$2,433.74</u>
Net Income, transferred to Revenue Account, Exhibit "C"...		<u><u>\$2,418.67</u></u>

## EXHIBIT "J."—UNIVERSITY HOSPITAL

For the year ended August 31, 1927.

<i>Income.</i>		
Pay Patients.....	\$113,787.31	
Legacy.....	201.89	
Commissions.....	44.37	
Nurses Outfits and Supplies—Net.....	196.89	
		<u>\$114,230.46</u>
<i>Expenses.</i>		
Salaries and Wages.....	\$43,630.38	
Rent of Rooms.....	251.66	
Table Supplies.....	36,439.29	
Medical and Surgical Supplies.....	9,622.38	
Electricity and Gas.....	4,657.90	
Fuel.....	2,190.24	
Laundry.....	7,906.17	
Repairs.....	3,927.81	
Equipment Replacements.....	336.53	
Ice.....	1,119.93	
Telephone and Telegrams.....	1,098.31	
Stationery and Printing.....	944.15	
Surety Bonds.....	275.00	
Hauling.....	172.07	
Traveling Expense.....	37.39	
Miscellaneous Supplies and Expenses.....	3,580.47	
		<u>\$116,189.68</u>
Net Loss, transferred to Revenue Account, Exhibit "C"...		<u><u>\$1,959.22</u></u>



## GENERAL ACCOUNTS

19

## EXHIBIT "K."—UNIVERSITY CAFETERIA

For the year ended August 31, 1927.

*Income.*

Food Sales.....	\$13,714.52
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*Expenses.*

Salaries and Wages.....	\$6,229.73
Food Purchases.....	9,339.92
Telephone.....	132.69
Stationery and Printing.....	43.09
Laundry.....	217.55
Ice.....	403.93
Advertising.....	61.96
Hauling.....	42.50
Duplicating Bureau.....	5.00
Miscellaneous Supplies and Expense.....	298.94
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	\$16,775.31

Net Loss, transferred to Revenue Account, Exhibit "C"...	\$3,060.79
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## GENERAL ACCOUNTS

[illegible]





TRUST ACCOUNTS

## EXHIBIT "O."

## TRUST FUNDS.

As at August 31, 1927.

## GENERAL ENDOWMENT FUNDS.

Permanent funds, principal to be invested and income only to be used, for support of the general work of the University.

*Subscription Gifts Fund, 1845-1851:*

Fund raised by authority of the Trustees of Columbian College by general subscription between the years 1845 and 1851, as a permanent endowment for the support of the College. (Formerly called the Poindexter Endowment Fund.) ..... \$12,525.56

*Withers Fund:*

Fund raised by authority of the Trustees of Columbian College between the years 1851 and 1870, for increasing the endowment fund of the College; John Withers of Alexandria, Virginia, giving \$16,100, and the balance being obtained by general subscription. (Formerly called the Forty Thousand Dollar Endowment Fund.) ..... 26,891.46

*Corcoran Fund:*

Fund raised by authority of the Trustees of Columbian College and Columbian University between the years 1871 and 1886, to be forever held inalienable, and not to be diminished by use for the support of the institution, but the whole amount to be invested, in the discretion of the Trustees and according to their best judgment, and the interest thereon or the income therefrom to be used for the current expenses and support of the institution; William W. Corcoran, of Washington, D. C., giving \$112,000, and the balance being obtained by general subscription. .... 220,155.76

*Syms Fund:*

Bequest of Samuel Robert Syms, of West Hoboken, New Jersey, in 1891, to Columbian University, to be applied by the Trustees toward the endowment of the College proper. .... 1,500.00

*Alumni Fund:*

A fund established by the Senior Class of 1920, as a testimonial of grateful appreciation, to be added to by succeeding graduating classes, the income only to be used for the general welfare of the University, as directed by the Board of Trustees. .... 392.00

*1923-24 Campaign Fund:*

Receipts through the Treasurer of the Fund, from various donors, and invested as a general endowment. .... 164,300.00

*George N. Acker Fund:*

Bequest of George N. Acker, M. D., of Washington, D. C., received July 2, 1924. An unconditional gift carried as a general endowment by direction of the Board of Trustees. .... 300.00

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\$426,064.78



## PROFESSORSHIP ENDOWMENT FUNDS.

Permanent funds, principal to be invested and income only to be used, for support of professorships as specified by the donors.

*Congressional Professorship Fund:*

Donation by the United States, in 1832, by Act of Congress, of \$25,000 in city lots in Washington, D. C., to be sold and the proceeds invested as a capital, the dividends or interest to be used and applied, in aid of other revenues of Columbian College, to the establishment and endowment of such professorships therein "as now are or hereafter shall be, established by the Trustees"..... \$105,362.95

*Elton Professorship Fund:*

Bequest of Rev. Romeo Elton of Exeter, England, in 1872, to be applied for the foundation of a professorship of mental and moral philosophy in Columbian College, to be called the Elton Professorship of Mental and Moral Philosophy..... 14,508.19

*Alumni Professorship Fund:*

Gifts of various alumni since 1911, for the endowment of an Alumni Professorship of Mathematics, the amount to be invested and the interest only to be used for the professorship..... 829.49

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\$120,700.63

## SPECIFIC ENDOWMENT FUNDS.

Permanent funds, principal to be invested and income only to be used, for designated purposes specified by the donors (other than support of professorships) incidental to, or connected with, the general work of the University.

*Scholarship Funds:**Walker Scholarship Fund:*

Gift of William Walker, of Putnam County, Georgia, in 1824, for the endowment of a scholarship..... \$2,500.00

*Withington Scholarship Fund:*

Gift of the Board of Trustees of the New York Baptist Theological Seminary, on behalf of John Withington, of New York, in 1829, for the purpose of endowing a scholarship in Columbian College, to be named the Withington Scholarship..... 1,953.13

*Morehouse Scholarship Fund:*

Gift of A. Morehouse, of Washington, D. C., in 1861, to Columbian College, with the design of adding to its ability to furnish gratuitous instruction to indigent students for the Christian ministry..... 1,500.00

*Kendall Scholarship Fund:*

Gift of Amos Kendall, of Washington, D. C., in 1869, to Columbian College on behalf of Calvary Baptist Church in the City of Washington, to purchase a classical scholarship; the Trustees of Public Schools in the City of Washington, and their successors, to have the perpetual privilege of selecting from said schools one pupil annually to fill said scholarship, and the pupils so selected each to be entitled to instruction in said College, for the term of six years, free of charge for tuition, use of library, and apparatus, or for any other privilege allowed to paying students of the same grade..... 5,959.61

<i>Davis Scholarship Fund:</i>	
Gift of Isaac Davis, of Worcester, Massachusetts, in 1869, the income to be appropriated to some student pursuing his collegiate course in Columbian College under certain conditions. ....	\$1,000.00
<i>M. M. Carter Scholarship Fund:</i>	
Gift of Mrs. Maria M. Carter, of Washington, D. C., in 1871, to Columbian College, to found a scholarship for some deserving young man. ....	1,000.00
<i>Founders of Columbian Women Scholarship Fund:</i>	
A fund established by the "Columbian Women" of George Washington University, in 1920, to provide scholarships for women in Columbian College. ....	5,000.00
<i>Woodhull Scholarship Fund:</i>	
Bequest of Ellen M. E. Woodhull, of Washington, D. C., the income to be used for scholarships. ....	600.00
<i>Third Columbian Women Scholarship Fund:</i>	
A fund established by the "Columbian Women" of George Washington University, in 1925, to provide scholarships for women in Columbian College. ....	2,010.00
<i>Byron Andrews Memorial Scholarship Fund:</i>	
A fund founded by Mrs. Belle Fisk Andrews, in memory of her husband, Byron Andrews, to provide scholarships "for ambitious and needy students in English, Latin, Journalism, History, Literature or Political Science" ..	5,000.00
<i>David Spencer Scholarship Fund:</i>	
Devise in trust of real estate in Knox County, Illinois, the income to constitute an educational fund which under certain conditions shall be used to aid in defraying the expenses of designated students at the University. ....	18,135.00
<i>Farnham Scholarship Fund:</i>	
Gift of Mrs. Robert Farnham, of Washington, D. C., in 1871, to Columbian College for a scholarship in the College. ....	1,000.00
<i>Powell Scholarship Fund:</i>	
Devise of real estate by Rear Admiral Levin M. Powell, of Washington, D. C., in 1886, to Columbian University for the free education of young men by way of preparation for entrance into the Naval Academy at Annapolis, or to fit them to become mates and masters in the Merchant Marine Service of the United States. ...	30,000.00
<i>Mary Lowell Stone Scholarship Fund:</i>	
Gift of an anonymous person in memory of Miss Mary Lowell Stone, in 1893, to Columbian University for scholarships for needy women students in science in the Department of Arts and Sciences. ....	2,000.00
<i>H. H. Carter Scholarship Fund:</i>	
Gift of Mrs. Maria M. Carter, of Washington, D. C., in 1896, in memory of her husband, Henry Harding Carter, to Columbian University, as a foundation for scholarships in civil engineering in Columbian College. .	5,000.00
<i>Nellie Maynard Knapp Scholarship Fund:</i>	
Gift of the "Columbian Women," in 1915, in memory of Mrs. Nellie Maynard Knapp, to George Washington University, for scholarships for women in the Department of Arts and Sciences. ....	5,000.00



*Elma Lewis Harvey Scholarship Fund:*

Bequest of Mrs. Emma Elizabeth Harvey, in memory of her daughter, Elma Lewis Harvey, to found a scholarship in the Department of Arts and Sciences for young women of the Protestant faith and of the Caucasian race. .... \$5,000.00

*Elizabeth V. Brown Scholarship Fund:*

A fund founded by the College Women's Club of Washington, D. C., in 1925, as a memorial to Elizabeth V. Brown, the income to be used for scholarships in Teachers College. .... 1,200.00

*College Women's Scholarship Fund:*

Donation by the College Women's Club of Washington in 1926, the income to be used by the Columbian Women for scholarships. .... 500.00

\$94,357.74

**Medical School and Hospital Funds:***Cooper Medical Research Fund:*

Bequest of Mrs. Eleanor J. Cooper, of Washington, D. C., in 1905, to Columbian University on certain terms since modified by the Supreme Court of D. C., as follows: The income to be devoted towards the establishment and maintenance, in connection with the Medical Department of George Washington University, of a Research Laboratory, the work of this laboratory to be devoted to the investigation of the nature, causation, prevention, and cure of malaria and other infectious and contagious diseases. .... \$10,000.00

*National Park Seminary Hospital Fund:*

Gift of students of National Park Seminary, of Forest Glen, Maryland, in 1906, to George Washington University, for the endowment of a bed in the University Hospital. .... 500.00

*Woodbury Hospital Fund:*

Bequest of Miss Ellen deQ. Woodbury, of Washington, D. C., in 1909, to George Washington University, for the reception and treatment of female patients in the hospital belonging to or connected with the University. .... 9,583.33

*Chapman Hospital Fund:*

Bequest of Mrs. Susanna A. Chapman, of Washington, D. C., in 1911, to George Washington University, to be used for the purposes of the free wards of the University Hospital. .... 1,350.90

*Tree Hospital Fund:*

Bequest of Lambert M. Tree, of Chicago, Illinois, in 1911, in memory of his mother, Mrs. Laura M. Tree, to Columbian University, for the purpose of establishing one or more beds in perpetuity in the University Hospital to be known as the "Laura M. Tree bed or beds" ..... 10,000.00

*Reinhardt Hospital Fund:*

Bequest of Mrs. Luisa Wynne Reinhardt, of Washington, D. C., in 1922, to the University Hospital, to be used for the benefit of the Hospital, as directed by the Board of Trustees. .... 500.00

*Sharpe Medical School Fund:*

Gift of Mary A. Sharpe, Elizabeth M. Sharpe, and Sallie Sharpe, in 1924, to establish a fund in trust, the income to be used exclusively for the Medical School. . . . . \$8,000.00

*Lewis Medical School Fund:*

Bequest of Samuel E. Lewis, received in 1925, the income to be used for the support of the Medical School. . . . . 103,004.15

*Board of Lady Managers Hospital Fund:*

Gift of the Board of Lady Managers of George Washington University Hospital, in 1925, to establish a fund, the income to be used for the support of the Hospital. . . . . 500.00

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\$143,438.38

**Prize Funds:***Davis Prize Fund:*

Gift of Isaac Davis, of Worcester, Massachusetts, in 1847, to Columbian College, for prizes to be awarded annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College. . . . . \$700.00

*Ruggles Prize Fund:*

Gift of William Ruggles, of Washington, D. C. (A professor in Columbian College and at one time Acting President), in 1859, to Columbian College, for a prize to be awarded annually for excellence in mathematics. . . . . 500.00

*Staughton-Elton Prize Fund:*

Gift of Rev. Romeo Elton, of Exeter, England, in 1860 and 1865, to Columbian College, for prizes to be awarded annually for excellence in the Latin and Greek languages; one to be called the Staughton prize in Latin, the other the Elton prize in Greek. . . . . 500.00

*Fitch Prize Fund:*

Gift of James E. Fitch, of Washington, D. C., in 1883, to Columbian University in memory of Willie E. Fitch, for a gold prize to be assigned annually under the auspices of the Scientific School. . . . . 1,000.00

*Walsh Prize Fund:*

Gift of Thomas F. Walsh, of Washington, D. C., in 1901, to Columbian University, for a gold medal to be awarded annually for excellence in Irish history. . . . . 300.00

*Cutter Prize Fund:*

Gift of Marion Kendall Cutter, of Washington, D. C., in 1902, to Columbian University, in memory of E. K. Cutter, for a prize to be awarded annually for excellence in the study of English. . . . . 1,000.00

*Goddard Prize Fund:*

Gift of Mary W. Goddard, Alice Douglas Goddard, and Frederick J. Goddard, of Georgetown, D. C., in 1923, in memory of Morgan Richardson Goddard, for a gold medal, and a cash prize, to be awarded annually to the student making the highest average in Commerce. . . . . 1,169.00

*Goddard Prize Fund:*

Gift of Mary W. Goddard, Alice Douglas Goddard, and Frederick J. Goddard, of Georgetown, D. C., in 1923, in memory of James Douglas Goddard, for a gold medal to be awarded annually to the student making the highest average in Pharmacy. . . . . 675.00



*Goddard Prize Fund:*

Gift of Mary W. Goddard, Alice Douglas Goddard, and Frederick J. Goddard; of Georgetown, D. C., in 1923, in memory of Edward Carrington Goddard, class of '81, for a gold medal to be awarded annually to the student making the highest average in the French language and literature..... \$675.00

*Hubbard Prize Fund:*

Gift of Mrs. Gertrude M. Hubbard, of Washington, D. C., in 1907, to George Washington University in memory of her husband, Gardiner G. Hubbard, for a prize to be awarded annually to the student in the undergraduate department of the University who, having maintained throughout four years a high standing in the classes of American history, may be required to present the best essay upon an assigned topic in this subject..... 1,000.00

*Ordonaux Prize Fund:*

Bequest of John Ordonaux, of Glen Head, N. Y., in 1909, to George Washington University, for the establishment of biennial prizes in the Law and Medical Departments..... 4,762.50

*Weddell Prize Fund:*

Gift of Mrs. Virginia Chase Weddell, in 1923, to found a prize to be known as the "Alexander Wilbourn Weddell Prize," to be awarded annually to the student submitting the best essay upon the general subject of the promotion of peace among the nations of the world 5,000.00

*Sterrett Prize Fund:*

Gift of Rev. J. Macbride Sterrett, in 1911, to George Washington University, in memory of his son, J. Macbride Sterrett, Jr., for a gold medal to be awarded annually to the student obtaining highest average in physics..... 300.00

*Lewis D. and Myrtle H. Wilson Prize Fund:*

A fund established by Miss Elizabeth Wilson in 1926, in memory of her parents, the income to be used to provide a prize in the Medical School..... 1,000.00

\$18,581.50

Total Endowment Funds..... \$803,143.03

## EXECUTORY TRUST FUNDS.

Non-permanent funds, principal and income usable for the purposes specified by the donors, each trust terminating on its execution.

## Executory Trust Funds not Confined to Building Purposes:

*Denman Law School Fund:*

Bequest of Hampton Y. Denman, of Washington, D. C., in 1904, to Columbian University, for the use and benefit of the Law Department..... \$9,750.41

*Jacques Law School Fund:*

Bequest of Mrs. Mary Emma Jacques, of Washington, D. C., in 1912, to George Washington University, to be used in such manner as the Trustees may direct for the Law School..... 6,865.92

*Jacques Medical School Fund:*

Bequest of Mrs. Mary Emma Jacques, of Washington, D. C., in 1912, to George Washington University, to be used in such manner as the Trustees may direct for the Hospital of the University..... \$4,525.51

*Mayer Hospital Fund:*

Bequest of Theodore J. Mayer, of Washington, D. C., in 1907 (received in 1916), to George Washington University, for the benefit of the University Hospital.... 5,944.54

*District of Columbia D. A. R. Loan Fund:*

A fund contributed by chapters in the District of Columbia to be loaned children of members..... 1,017.56

*Pharmacy Fund*..... 18,798.93

Sale of Pharmacy Building, 808 Eye Street.

*Swisher Book Fund*..... 266.25

*Reserve for the protection of Trust Funds investments*..... 862.23

*Lafayette Memorial Fund*..... 1,704.04

*Maury Memorial Fund*..... 1,714.52

*Endowment Restoration and Accretion Fund*.... 3,345.53

\$54,795.44

**Building Funds:***Law School Building Fund:*

Gifts from various persons toward a fund authorized by the Trustees of the University May 31, 1916, for purchasing a site and erecting a Law School building... 257.34

*General Building Fund:*

Gifts from various persons toward a fund authorized by the Trustees of the University May 31, 1916, for purchasing sites, buildings and equipment, remodeling or rebuilding, and paying off obligations. This is an open subscription fund, to be continued and increased indefinitely..... 20,918.26

*Chemistry Building Fund:*

Gifts from various persons toward a fund, principal and interest usable for a Chemical Laboratory Building..... 157.13

*Unit No. 3 Fund:*

Gifts from various persons to aid in financing the third unit of the building program... 17,782.51

*Class of 1929 Women, Unit No. 3 Fund:*

Gifts from women members of the Class of 1929, to be used in aid of the building of Unit No. 3..... 104.67

*Medical Building Fund:*

Contribution R. C. Withers..... 100.00

39,319.91

Total Executory Trust Funds..... \$94,115.35

Total Trust Funds..... \$897,258.38



EXHIBIT "P."  
ENDOWMENT FUNDS INVESTMENTS

As at August 31, 1927.

STOCKS.

American Telephone and Telegraph Co.:	
7 shares of stock.....	\$808.00
Chicago, Rock Island and Pacific Railway Co.:	
40 shares of 7 per cent Preferred Stock.....	4,000.00
Chicago, Rock Island and Pacific Railway Co.:	
100 shares common stock.....	8,094.72
(This item takes the place of \$10,000, 4% Collateral Trust Bonds, due 2002, considered worthless.)	

BONDS.

Chicago, Rock Island and Pacific Railway Co.:	
\$24,000 4 per cent and Refunding Mortgage Bonds, due 1934.....	\$20,959.17
Virginia Railway Co.:	
\$300 5 per cent First Mortgage Gold Bonds, Series "A," due 1962.....	297.38
Washington Railway and Electric Co.:	
\$4,500 4 per cent Consolidated Mortgage Gold Bonds, due 1951.....	3,631.25
Potomac Electric Power Co.:	
\$15,000 5 per cent Consolidated Mortgage Gold Coupon Bonds, due 1936.....	15,025.00

TRUST NOTES.

Agnes Plunkett Notes:	
Secured by deed of trust on part of lot 12, square 11, in Meridian Hill, interest 6 per cent; due February 4, 1929..	200.00
Elmer W. Brandes Note:	
No. three of three, secured by deed of trust on lot 25, square 1938; interest 6 per cent; due July 16, 1929. Held by American Security and Trust Co., Trustees of Byron Andrews Memorial Scholarship Fund.....	3,000.00
Anchor Theatrical Corporation Notes:	
Numbers thirty-five and thirty-nine of thirty-nine, secured by deed of trust on lot 44, square 254, interest 6 per cent; due September 26, 1930.....	5,000.00
Benjamin F. Raines Note:	
Secured by deed of trust on sub-lot 148, square 672; interest 7 per cent; due March 13, 1929.....	2,150.00
Terminal Storage and Warehousing Company Notes:	
Numbers one hundred and six, one hundred and eleven, one hundred and thirty-six and one hundred and thirty-seven, part of one hundred and thirty-four, one hundred and thirty-eight and one hundred and thirty-nine, of one hundred and forty-five, secured by deed of trust on original lot 6, lots A, B, C, D, E, F, 16, 17, and part of lots 18 and 191, square 536; interest 6 per cent; due November 10, 1928.....	19,000.00
Morris Ross Note:	
Numbers five and six of eight, secured by deed of trust on lot 24, square 180; interest 6 per cent; due April 15, 1928.	2,000.00

Pauline V. Beyer Note:	
No. 6 of a series of 66, secured by lot B and part of Alley H, square 376; due December 17, 1928; interest 5½ per cent	\$5,000.00
Salvation Army Notes:	
2 notes Nos. 22 and 23 of a series of 25, secured by lots 29, 30, 31, and part of 32, square 248; due March 17, 1929; interest 6 per cent.	10,000.00
John F. Burns Note:	
Secured by deed of trust on lots 50, 51, 52, 53, block 8, "Washington Heights"; interest 6 per cent; due October 2, 1929.	8,000.00
Carrie Carroll and Sarah Ornstein Note:	
Three notes, numbers 1, 2, and 4 of a series of 23, secured by lots 58 and 59, square 218; due July 17, 1927; interest at 6 per cent.	25,000.00
Central Building Company Notes:	
Numbers 208, 209, 210, 211, and 212, of 308, secured by lot 47, square 168; interest 6 per cent; due December 18, 1929.	25,000.00
Albert Hislop Notes:	
Numbers 153, 154, and 191 of 280, secured by lot 38, and part of original lot 5, square 253; interest 5½ per cent; due March 14, 1928.	15,000.00
Ida M. Butts Notes:	
Numbers 1 and 7 of 39, secured by lots 273 and 274, square 245; interest 6 per cent; due March 23, 1928.	15,000.00
*Interest in \$350,000 note payable to Washington Loan and Trust Co., secured by deed of trust, executed by the University to National Savings and Trust Company, Trustee, December 1, 1910, on Medical and Hospital Lands and Buildings, 1335, 1339, and 1341 H Street, N. W., without interest; due on or before December 1, 1920.	323,430.23
Chester A. Snow Notes:	
Numbers 36, 44, 48, 52, 70, 71, 73, and 74 of 95, secured by deed of trust on lot 77, square 162; interest 5½ per cent; due October 31, 1928.	8,000.00
Frank Armstrong Notes:	
Five notes secured by deed of trust on lot 66, square 1868; interest 6 per cent; due November 10, 1928.	5,000.00
Chas. H. Butler Notes:	
Five notes numbers 1 to 5 of a series of 50, secured by deed of trust on lots 4, 22, 23, 53, square 1991, interest 6 per cent; due February 6, 1929.	25,000.00
H. L. Breuninger Notes:	
One of a series of 14, secured by deed of trust on lot 23, square 2714; interest 6 per cent; due May 21, 1928.	5,000.00
Wardman and Bones Note:	
No. 10 of 70, secured by deed of trust on lot 4, square 216; interest 6 per cent; due February 17, 1929.	5,000.00
Kresge Realty Company Notes:	
Numbers 2 and 3 of 25, secured by deed of trust on lot 1, square 319; interest 5¼ per cent; due April 9, 1928.	20,000.00

\* The \$2,000.00 difference between this note of the University and the liability carried on the balance sheet, Exhibit "A," is included in the Endowment Restoration and Accretion Fund.



## TRUST ACCOUNTS

33

## Junior Order Hall Association Note:

One note, secured by deed of trust on 808 Eye Street N. W.,  
part of original lot 7, square 404; interest 6 per cent; due  
July 16, 1929..... \$9,500.00

## Shannon and Luch's Inc. Notes:

Nos. 184 and 185 of 207, secured by deed of trust on lots  
71 to 77 inclusive, square 252; interest 5½ per cent; due  
April 4, 1932..... 20,000.00

## Robert N. Taylor Notes:

Nos. 10 and 25 of 52, secured by deed of trust on lots 10,  
11 and 12, square 186; interest 6 per cent; due July 28,  
1930..... 15,000.00

## REAL ESTATE.

## Congressional Endowment:

Lot 818, square 13.....	\$3,813.50	
Lot 12, square 13.....	3,715.00	
Lot 13, square 13.....	3,270.00	
Lot 9, square 16.....	2,594.20	
Lot 5, square 87.....	8,532.00	
		\$21,924.70

Powell House, 1707 Eye Street N. W..... 30,000.00

Chapman lot, Hyattsville..... 125.00

Spencer Farm..... 18,135.00

Lewis Properties, 1404-6-8-10 P Street, and 1416-18 and  
1502 14th Street..... 145,000.00

## MISCELLANEOUS.

## Certificate of Deposit:

Washington Loan and Trust Company..... \$150.00

\$838,430.45

## SUMMARY

Stocks.....	\$12,902.72	
Bonds.....	39,912.80	
Trust Notes.....	570,280.23	
Real Estate.....	215,184.70	
Miscellaneous.....	150.00	
		\$838,430.45

Cash on hand for Investment August 31, 1927, Exhibit "A"..... 29,241.30

\$867,671.75

Less Mortgage on Lewis Properties..... 45,000.00

Total Endowment Funds Investments..... \$822,671.75

## EXHIBIT "Q."

## EXECUTORY TRUST FUNDS INVESTMENTS

As at August 31, 1927.

## BONDS.

## U. S. Steel Corporation:

\$2,000.00 5% Sinking Fund Gold Coupon Bonds, due 1963.....	\$2,040.00
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## Potomac Electric Power Company:

\$2,000.00 5% Consolidated Mortgage Gold Coupon Bonds, due 1936.....	2,028.75
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## Washington Gas Light Company:

\$1,000.00 5% General Mortgage Gold Bond, due 1960.....	1,105.00
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## Washington Railway and Electric Company:

\$1,000.00 4% Consolidated Mortgage Gold Bond, due 1951.....	860.00
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\$6,033.75

## TRUST NOTES.

## Nettie and Fayette Moore Notes:

No. 58-97 and 98 of 132, secured by deed of trust on lots 23, 24, 28, 29 and part of lot 65, block 36, Columbia Heights; interest 6%; due November 7, 1926.....	\$5,000.00
--	------------

Terminal Storage and Warehousing Company  
Notes:

Part of Nos. 134, 138 and 139 of 145, secured by deed of trust on original lot 6, lots A, B, C, D, E, F, 16, 17 and part of lots 18 and 191, square 536; interest 6%; due November 10, 1928.....	6,000.00
--	----------

## Fidelity Storage Company Notes:

Nos. 1, 15, 22, 23, 28, 33, 34, 35, 48 and 55 of 63; secured by deed of trust on lot 58, square 205; interest 5½ per cent; due June 24, 1928.....	22,000.00
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## Shannon and Luchs, Inc., Note:

One note dated April 4, 1927, due April 4, 1932, secured by deed of trust on lots 71 to 77 inclusive, square 252; interest 5½ per cent	10,000.00
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\$43,000.00



## TRUST ACCOUNTS

35

## MISCELLANEOUS

Interest in General Property of the University.....	\$7,179.32
Total Investments.....	\$56,213.07
Cash on hand for Investment, August 31, 1927.....	18,373.56
Total Executory Trust Funds Investments.....	<u>\$74,586.63</u>

## SUMMARY

Total Endowment Funds Investments.....	\$822,671.75
Total Executory Funds Investments.....	74,586.63
Total Trust Funds Investments.....	<u>\$897,258.38</u>

## REPORT OF THE TREASURER

EXHIBIT "R."—ENDOWMENT AND EXECUTORY TRUST FUNDS, INCOME AND EXPENSE.  
For the year ended August 31, 1927.

	Balance Aug. 31, 1926.		Year ended Aug. 31, 1927.		Balance Aug. 31, 1927.	
	Debit.	Credit.	Expense.	Income.	Debit.	Credit.
<i>Endowment Funds:</i>						
Congressional Professorship of English Fund.....		\$1,078.20	\$2,002.19	\$923.99		
Corcoran Endowment Fund.....		1,615.00	3,084.90	1,469.90		\$130.15
Alumni Endowment Fund.....		111.87		18.28		1,249.49
Elton Professorship Fund.....		1,443.17	400.00	206.52		294.98
Alumni Professorship of Mathematics Fund.....		355.78		38.70		233.19
Founders of Columbian Women Scholarship Fund.....		275.66	275.66			79.68
Third Columbian Women Scholarship Fund.....		34.38	34.38			
David Spencer Scholarship Fund.....		882.43	900.00		\$17.57	
Wilmington Scholarship Fund.....		65.14	60.00			22.87
Kendall Scholarship Fund.....		476.72	378.00		53.72	308.80
David Scholarship Fund.....	\$55.59			1.87		
Powell Scholarship Fund.....		3,144.07	5,723.92	1,615.75	984.10	
Ellen M. E. Woodhull Scholarship Fund.....		177.42		27.99	206.25	205.41
H. H. Carter Scholarship Fund.....	206.25					
M. M. Carter Scholarship Fund.....	1.23				1.23	
Byron Andrews Memorial Scholarship Fund.....		184.49	200.00	767.67		752.16
1925-24 Campaign Fund.....		6,791.10	13,817.63	7,026.53		15.00
Farriman Scholarship Fund.....		38.77	38.77	15.00		379.58
Nathaniel Knapp Scholarship Fund.....		395.86	260.02	243.74		55.97
E. V. Brown Scholarship Fund.....		69.37	69.37	55.97		391.59
Mary Lowell Stone Scholarship Fund.....		471.39	80.00			16.00
Morphe Lodge No. 20 Scholarship Fund.....		16.00				54.00
McGerritt Scholarship Fund.....		112.00	296.00	238.00		787.11
Elita Lewis Harvey Scholarship Fund.....		725.86	200.00	261.25		23.32
College Women Scholarship Fund.....		16.07	16.07			525.85
Cooper Medical Research Fund.....		744.31		466.38		
Sargent F. Lewis Fund.....		89.58	10,052.56	9,962.98		23.32
National Park Seminary Hospital Endowment Fund.....		424.76	424.76	23.32		23.32
Woodbury Hospital Endowment Fund.....		525.25	525.25	446.95		446.95
Chapman Hospital Endowment Fund.....		67.55	67.55	57.16		57.16
Tree Hospital Endowment Fund.....		551.20	551.20	466.38		466.38
Lady Managers Hospital Fund.....		15.16	15.16	23.32		23.32
Reinhardt Hospital Fund.....		27.66	27.66	23.32		23.32
David Prize Fund.....		129.33	50.00	32.65		111.98
Ruggles Prize Fund.....					40.50	
Fitch Prize Fund.....	40.50					
Weddell Prize Fund.....		674.38	50.00	11.11		635.49
		34.72	250.00	233.19		17.91



# TRUST ACCOUNTS

37

Walsh Prize Fund.....	359.40	50.00	13.99	373.39
Cutter Prize Fund.....	58.97	50.00	46.64	55.61
Hubbard Prize Fund.....	1.17	50.00	46.64	4.53
Sterrett Prize Fund.....	126.25	200.00	189.40	138.25
Ordronaux Prize Fund.....	618.62	25.00	117.47	608.02
Goddard Prize Fund.....	152.97	50.00	46.64	245.14
Lewis D. and Myrtle H. Wilson Prize Fund.....	3.66	1,293.88	420.80	3.66
Stoughton-Elton Prize Fund.....	843.08	30.69	14.15	15.20
Sharpe Medical School Fund.....	16.64	264.90	114.57	
District of Columbia D. A. R. Loan Fund.....		114.57	305.84	
Executive Trust Fund:		201.06	201.06	
Mayer Hospital Fund.....		11.47	600.87	
Denman Law School Fund.....		600.87	149.08	
Jacques Medical School Fund.....		7.02	7.02	
Law School Building Fund.....		10.05	76.40	
General Building Fund.....		76.40	75.93	
Endowment Restoration and Accretion Fund.....		287.77	287.77	
Chemistry Building Fund.....		4.67	4.67	
Joerissen Fund.....		582.51	582.51	
Maury Memorial Fund.....				
La Fayette Memorial Fund.....				
Pharmacy Fund.....				
Class of 1929 Women Unit No. 3 Fund.....				
Unit No. 3 Fund.....				
Less: Balances.....	\$304.74	\$23,998.85	\$44,910.70	\$1,288.70
Net Balances.....		304.74	28,821.44	
		\$23,694.11	\$10,089.26	\$7,604.85

## Summary.

Unexpended Income, Cash on Hand September 1, 1926.....	\$23,694.11
Income for the Year:	
Endowment Funds.....	\$26,138.65
Executive Trust Funds.....	2,082.79
Expenses for the Year:	
Endowment Funds.....	\$42,208.86
Executive Trust Funds.....	2,701.84
Unexpended Income, Cash on Hand August 31, 1927.....	\$7,604.85





GEORGE WASHINGTON UNIVERSITY SUMMER SCHOOL  
ARTS AND SCIENCES

1927

June 13-August 13

July 5-August 13

CHANGES AND CORRECTIONS

The following changes and corrections should be made in the Summer School catalogue for 1927:

*Changes in Courses*

English \*32, Shakespeare, and English \*XLI, The Pilgrim's Progress, will not be given. In place of these two courses the following will be given:

English \*XXV—American Poetry, at 9:05 a. m. Two semester-hour credits. Mr. SMITH. Corcoran Hall Room 23.

English \*XXXIV—The Poetry of Milton, at 10:05 a. m. Two semester-hour credits. Mr. BAKER. Corcoran Hall Room 23.

English \*2a—Rhetoric will be given by Dr. ANDERSON.  
The three courses above listed will begin on July 5.

French 2b—Second semester of first-year course will be given by Assistant Professor FOSTER.

French 4—Second-year course will be given by Assistant Professor DEIBERT.

French 12—Third-year course will be given by Assistant Professor PROTZMAN at 5:10 p. m. instead of 4:10 as stated.

Spanish 1—First-year course will be given by Mr. CORLISS.

*Corrections in Fees*

For Botany 2, microscope rental fee of \$5.00, and

For Zoology 3, laboratory fee of \$10.00, instead of \$7.50 as stated.

*Six Weeks' Courses*

The following courses begin on July 5 and should be starred in the Schedule of Classes on pages 9-11, and the Courses of Instruction, pages 12-21.

Botany \*1 The Living Plant  
      \*2 The Plant Kingdom  
      \*5 Plant Study  
      \*25 Plant Adaptation  
      \*26 Advanced Field Work

Commerce \*1 History of Commerce

Education \*11 Educational Psychology  
      \*21a Education Sociology  
      \*21b Principles of Teaching  
      \*22b History of Education  
      \*24 History of American Education  
      \*25a Secondary Education  
      \*25b The Junior High School  
      \*26a Elementary Education  
      \*26b Elementary Education  
      \*31b Tests and Measurements  
      \*33 Teaching of History  
      \*54 Administration and Supervision

English \*2a English Rhetoric  
      \*XXV American Poetry  
      \*XXVIII Early English Literature  
      \*XXIX English Romances and Balladry  
      \*XXXIV Poetry of Milton

History \*38 The French Revolution and the Napoleonic Era  
      \*XLVII Recent American History

Philosophy \*21 Survey of Philosophy

Political Science \*24 Constitutional Law  
      \*25 Political Theory

Psychology \*11a Educational Psychology

Zoology \*4 Nature Study  
      \*28 Advanced Nature Study

On page 9, 9:05-10:00, read

Education \*21a Educational Sociology, instead of Educational Psychology.



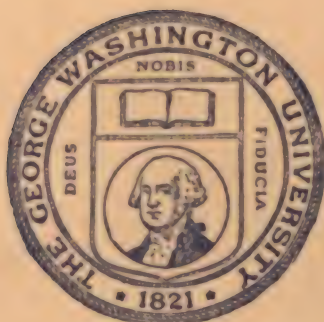
VOL. XXVI

NUMBER 2

George Washington University  
BULLETIN

SUMMER SCHOOL  
ARTS AND SCIENCES

1927



MARCH, 1927

PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C.  
MARCH, JUNE, OCTOBER AND DECEMBER

Entered October 6, 1904, at Washington, D. C., as second-class matter under the  
Act of Congress of July 16, 1894.



C. The Fairchild Aerial Surveys, Inc., N. Y. C.

*Air View of the Immediate Surroundings of George Washington University*

- 1. George Washington University.
- 2. Interior Department.
- 3. State Department.
- 4. White House.
- 5. Treasury Department.
- 6. Washington Monument.
- 7. Department of Agriculture.



George Washington University

WASHINGTON, D. C.

SUMMER SCHOOL  
ARTS AND SCIENCES

1927

JUNE 13 - - - AUGUST 13

JULY 5 - - - AUGUST 13

### SUMMER SCHOOL CALENDAR

1927

June	9, Tuesday.	Registration period begins.
June	13, Monday.	Instruction begins in the nine-weeks' classes and all others not starred.
July	4, Monday.	Holiday.
July	5, Tuesday.	Instruction begins in the six-weeks' classes marked by a star (*).
July	9, Saturday.	Classes held at the usual hours.
August	13, Saturday.	Summer Session ends.



## ADMINISTRATIVE OFFICERS

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Howard Lincoln Hodgkins, Ph.D., Sc.D., Dean of the University  
Elmer Louis Kayser, A.M., Secretary  
Charles Wendell Holmes, Treasurer

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Howard Lincoln Hodgkins, Ph.D., Sc.D., Dean  
Anna Lorette Rose, A.M., Dean of Women  
Linda Jane Kincannon, A.M., Registrar

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Oscar Benwood Hunter, A.B., M.D., Assistant Dean

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### College of Pharmacy

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### Law School

William Cabell Van Vleck, A.B., LL.B., S.J.D., Dean  
Helen Catherine Newman, LL.B., Secretary

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Alfred Francis William Schmidt, A.M., Librarian

### Buildings and Grounds

Elmer Schatz, Superintendent

## SUMMER SCHOOL FACULTY

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 HOWARD LINCOLN HODGKINS, Ph.D., Sc.D.....*Dean of the University*  
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*Romance Languages*

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*Librarian and Professor of Library Science*  
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 ROBERT RUSS KERN, A.B.....*Professor of Economics and Sociology*  
 CHARLES EDWARD HILL, Ph.D.....*Professor of Political Science*  
 HIRAM COLVER MCNEIL, Ph.D.....*Professor of Chemistry*  
 THOMAS BENJAMIN BROWN, Ph.D.....*Professor of Physics*  
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 ROBERT FISKE GRIGGS, Ph.D.....*Professor of Botany*  
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 COLIN MACKENZIE MACKALL, Ph.D.....*Professor of Chemistry*  
 EDWARD HENRY SEHRT, Ph.D.....*Professor of German*  
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 WARREN REED WEST, Ph.D.....*Assistant Professor of Political Science*  
 ALAN THOMAS DEIBERT, A.M.,  
*Assistant Professor of Romance Languages*

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 AUDLEY LAWRENCE SMITH, A.M.....*Instructor in English*  
 PAUL EUGENE GROPP, A.M.....*Instructor in German*



GEORGE KUMLER ANDERSON, Ph.D.	<i>Instructor in English</i>
LOWELL JOSEPH RAGATZ, Ph.D.	<i>Instructor in History</i>
COURTLAND DARKE BAKER, A.M.	<i>Instructor in English</i>
CARL LEROY FREDERICK, A.B.	<i>Instructor in Physics</i>
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EDWARD P. HENDERSON, A.B.	<i>Instructor in Geology</i>
M. A. MARTINEZ	<i>Instructor in Spanish</i>

## VISITING PROFESSORS

- WILLIAM MOSELEY BROWN, Ph.D., *Professor of Education and Psychology, Washington and Lee University.*
- JOHN DONALD HICKS, Ph.D., *Professor of American History, University of Nebraska.*
- ARTHUR D. WRIGHT, M.A., *Professor of Education, Dartmouth College.*
- JOHN P. WYNNE, Ph.D., *Professor of Education, State Teachers College, Farmville, Virginia.*
- ALVA CURTIS WILGUS, Ph.D., *Associate Professor of History, University of South Carolina.*
- WILLIAM MCKINLEY ROBINSON, M.A., *Specialist, United States Bureau of Education.*

## ASSISTANTS

*Botany:* JUNE COOPER, A.B.; *Chemistry:* DEE HURST, A.B., ARTHUR EVARTS KIMBERLY, B.S. in Chem., RUSSELL WILSON, B.S. in Chem. E., FRED C. FARRELL, CORINNE DE BARYSHE; *Zoology:* HARRIET BUNDICK, WILLIAM T. McCLOSKEY, A.B., ELIZABETH PARKER, A.B.

## SUMMER SCHOOL

### ARTS AND SCIENCES

1927

The 1927 session will be the twelfth in the present series of summer sessions in George Washington University. The summer school is an integral part of the University, and all of the courses given are similar to the corresponding courses given during the regular session. The teaching staff is for the greater part composed of members of the faculty of the University.

The Summer School offers to students an opportunity to continue work toward their degrees during the vacation period. For teachers and librarians a wide range of professional courses is available.

In addition, the educational value of a visit to the nation's capital is of inestimable importance. The knowledge gained forms a background for both intelligent and appreciative citizenship. History, geography, literature, civics and current events are all vivified by a first hand knowledge of Washington and its environment.

#### ADMISSION

All the work offered is of college grade and rests upon a minimum preparation of high school graduation or the equivalent. Unless a student wishes to matriculate in the University, the formal presentation of entrance credentials is not required.

#### REGISTRATION

Registration for courses, changes in registration, and the dropping of courses are effected in the Registrar's Office, 2033 G Street N.W. This office will be open to receive registrations from 9 a. m. to 6 p. m. after June 9, although students may register at any earlier date in person, or by mail. Registration for credit in any class closes three days after the class has started, unless written permission to the contrary is granted by the Director.

#### CREDIT

The units of credit in semester hours carried by the several courses are indicated both in the schedule of classes on pages 9-11 and in the descriptive outlines of the course on pages 12-24. A semester hour of work covers a minimum of fifteen class or laboratory periods.

Work satisfactorily completed in the Summer School will be accredited toward a degree at George Washington University on the same basis as work completed during the regular session. No student is permitted to take more than three courses without the special permission of the Director who may for reasons of weight permit a student to register for a fourth course. Students regularly employed



will not be allowed to register for more than two courses without the special permission of the Director.

A division of courses into three sections is recognized. First section courses, numbered from 1 to 19, inclusive, are planned primarily for lower classmen; second section courses, numbered from 20 to 49, inclusive, for upper classmen; and third section courses, numbered 50 and above, for graduate students. First section courses may not be credited toward the higher degrees, and second section courses, unless otherwise noted, may be so credited only after additional work in them has been satisfactorily completed. Third section courses may not be entered by students without a bachelor's degree except with the approval of the instructors concerned. Candidates for the master's degree at George Washington University must complete at least six semester hours of work in the third section.

#### GRADUATE STUDY

The requirements for the degree of Master of Arts may be satisfied by Summer School attendance exclusively. These requirements involve, in addition to the thesis, the satisfactory completion of twenty-four semester hours of work, forming a consistent plan of study, and a minimum attendance of twenty-seven weeks. The candidate's choice of subjects must be approved by his major department and by the Dean. Wherever possible it is advisable for students to consult members of the major department before registering. For a detailed statement of the requirements for the Master's and Doctor's degrees, the student is referred to the regular catalogue of the University.

#### LIBRARY

The University Library is located on the first floor of Lisner Hall (Building 4). The Library will be open during the summer session from 8.30 a. m. to 12.30 p. m. and 3 to 9 p. m.

#### DIRECTOR

The office of the Director of the Summer School is located on the first floor of the Administration Building (A 11), 2100 G Street.

#### HOUSING FACILITIES

A register of approved rooms is kept in the office of the Dean of Women (Building 8), where inquiries in respect to housing facilities should be addressed. Living accommodations in private houses, dining rooms, restaurants and cafeterias may be found in abundance near the University.

## PAYMENT OF FEES

The Cashier's office, where all fees are paid, is located at 2033 G Street, across the hall from the Registrar's office. Fees are due upon registration, but the nine-weeks' students may pay their fees in three equal installments, at the time of registration, July 1 and July 15, and the six-weeks' students in two equal installments, at the time of registration and July 15. Students whose fees are not paid in full three days after the final dates mentioned and who have not made arrangements for later payment with the Treasurer will be dropped.

Students who are compelled to withdraw before the end of the session should promptly notify the Registrar, who will make a fair adjustment of the fees. No separate registration fee is charged, but two dollars of the tuition fee may be canceled. As the fiscal year of the University ends August 31, no requests for refunds can receive consideration after that date.

## FEES

Tuition is charged at the rate of \$7.00 for each semester hour of work taken, except in the case of students who were in attendance during 1924-5, who will be charged in accordance with statements in the catalogue of 1924-5.

Laboratory fees are additional as follows:

Chemistry 2, Geology 1, Physics 4a and 4b, each.....	\$5.00
Chemistry 15 and Zoology 3, each.....	7.50
Chemistry 3, 4 and 20, each.....	10.00
Chemistry 16, 41, 46 and 93, each.....	15.00

Breakage deposits, the amount paid in excess of breakage to be returned:

Chemistry 2, 3 and 4, each.....	10.00
Chemistry 10, 15, 16, 41, 46 and 93, each.....	15.00

Microscope rental:

Zoology 4 .....	2.00
Zoology 3 and Botany 1, each.....	5.00



## SCHEDULE OF CLASSES

In this statement courses which are starred begin July 5. All other courses begin June 13. Classes meet five times a week, or the equivalent. Credits are stated in semester-hours.

Course.	Credits.	Instructor.	Room.
7:45—8:40 A. M.			
Commerce 26, Marketing	3	Young	C.H. 24
Economics 33, Investments	3	Sutton	C.H. 21
*Education 21 B, Principles of Teaching	2	Wynne	C.H. 22
*Education 22 B, History of Education	2	Brown	C.H. 15
*Education 26 B, Elementary Education	2	Robinson	C.H. 32
*English 2 A, Rhetoric	3	Wilbur	C.H. 23
Geology 1, Mineralogy	4	Henderson	C.H. 31
German 6, Scientific German	3	Gropp	C.H. 25
History 27, Hispanic-American History	3	Wilgus	C.H. 35
History 45, Modern Imperialism	3	Ragatz	C.H. 29
Political Science 1, U. S. Government	3	West	C.H. 33
8—10			
*Zoology 4, Nature Study	3	Bartsch	3-11
9:05—10			
*Commerce 1, History of Commerce	2	Young	C.H. 24
*Education 21 A, Educational Psychology	2	Brown	C.H. 15
*Education 24, History of Education	2	Wright	C.H. 21
*Education 26 A, Elementary Education	2	Robinson	C.H. 32
*English 32, Shakespeare	2	Wilbur	C.H. 23
*History XLVII, Recent American History	3	Hicks	C.H. 35
*Philosophy 21, Principles of Philosophy	2	Richardson	C.H. 25
10:05—11			
*Botany 2, Plant Kingdom	3	Griggs	C.H. 24
*Education 11, Educational Psychology	2	Brown	C.H. 15
*Education 25 A, Secondary Education	2	Wynne	C.H. 22
*Education 33, Teaching of History	2	Wilgus	C.H. 35
*Education 54, Administration and Supervision	3	Wright	C.H. 21
*English XXIX, Romances and Balladry	2	Anderson	C.H. 25
*English XLI, Pilgrims Progress	2	Wilbur	C.H. 23
*Political Science 24, Constitutional Law	2	West	C.H. 33
*Psychology 11, Educational Psychology	2	Brown	C.H. 15
11:05—12			
*Education 25 B, Junior High School	2	Wynne	C.H. 22
*Education 31 B, Tests and Measurements	2	Wright	C.H. 21

Course.	Credits.	Instructor.	Room.
*English XXVIII, Early English Literature	2	Anderson	C.H. 25
*History 38, French Revolution	2	Ragatz	C.H. 29
*Political Science 25, Political Theory	2	West	C.H. 33
1:30—4:30 P. M.			
*Botany 5, Plant Study	4	Griggs	2-21
4:10—5			
English XLII, Modern Poetry	3	Baker	6-22
French 12, Third Year French	3	Henning	5-21
Political Science 3, State Governments	3	Hill	C.H. 17
5:10—6			
Chemistry 2, General Chemistry (to 6:20)	6	McNeil	C.H. 39
Chemistry 3, General Chemistry (to 6:55)	10	McNeil	C.H. 39
Chemistry 4, General Chemistry (to 6:20)	8	McNeil	C.H. 39
Chemistry 10, Physical Chemistry (to 6:55)	10	Van Evera	C.H. 37
Chemistry 15, Organic Chemistry (to 6:20)	6	Mackall	C.H. 36
Chemistry 16, Organic Chemistry (to 6:20)	8	Mackall	C.H. 36
(For other courses in Chemistry see announcement on page 12.)			
Commerce 33 A, Contracts	2	Alden	5-22
English 6 A, Survey	3	Bolwell	6-12
English 38 B, Romantic Movement	3	Smith	6-21
English XL, The Short Story	3	Baker	6-22
French 1, First Year French (2 hours daily, second hour 6:55)	6	Foster	4-32
French 4, Second Year French (2 hours daily, second hour 6:55)	6	Henning	5-21
French 7, Composition and Conversation	3	Benéteau	4-23
History 10 A, American History to 1829	3	Hicks	C.H. 27
History 11, Medieval History	3	Ragatz	C.H. 29
Library Science 1, Cataloguing	3	Schmidt	4-29
Mathematics 4 A, College Algebra	3	Cheney	4-21
Mathematics 9 B, Analytic Geometry	3	Hodgkins	5-11
Physics 3 A, General Physics	3	Brown	4-14
Political Science 31, World Politics	3	Hill	C.H. 17
Psychology 12 B, Applied Psychology	3	Moss	4-28
Spanish 1, First Year Spanish (2 hours daily, second hour 6:55)	6	Deibert	C.H. 22
Spanish 4, Second Year Spanish (2 hours daily, second hour 6:55)	6	Doyle	C.H. 35
Zoology 3, Zoology	8	Bartsch	6-11
5:10—6:55			
Chemistry 3, General Chemistry	10	McNeil	C.H. 39



## SUMMER SCHOOL

11

Course.	Credits.	Instructor.	Room.
Chemistry 10, Physical Chemistry and Qualitative Analysis	10	Van Evera	C.H. 37
Economics 2, Principles of Economics	6	Sutton	4-27
Economics 21, Experimental Sociology	6	Kern	C.H. 25
Geology 2, General Geology	4	Bassler	5-12
German 2, First Year German	6	Gropp	C.H. 24
German 4, Second Year German	6	Sehrt	4-24
5:10—7:45			
*Botany 25, Plant Adaptation	3	Griggs	2-21
6:05—6:55			
*Botany 1, Living Plant	3	Griggs	C.H. 15
Commerce 33 B, Commercial Paper	2	Alden	5-22
Commerce 43, Foreign Trade	3	Young	C.H. 33
English 6 B, Survey	3	Bolwell	6-12
English XXIV, American Literature	3	Smith	6-21
French 2 B, Second Semester French	3	Foster	4-32
History 10 B, American History from 1829	3	Hicks	C.H. 27
History 25 A, English History	3	Wilgus	C.H. 29
Library Science 20, Classification	3	Schmidt	4-29
Mathematics 4 B, Geometry and Trigonometry	3	Cheney	4-21
Mathematics 9 A, Plane and Spherical Trigonometry	3	Hodgkins	5-11
Philosophy 26, Logic	3	Richardson	C.H. 15
Physics 3 B, General Physics	3	Brown	4-14
Political Science 29, International Law	3	Hill	C.H. 17
Psychology 12 A, General Psychology	3	Moss	4-28
Spanish 2 B, Second Semester Course	3	Protzman	6-22
Spanish 7, Conversation and Composition	3	Martinez	4-23
Spanish 12, Modern Spanish Drama	3	Doyle	C.H. 35
6—8			
Zoology 27, Physiology	6	Bartsch	3-11
6:55—7:50			
English 23 B, Modern Novel	3	Bolwell	6-12
French 1, First Year Course (see 5:10)			4-32
French 4, Second Year Course (see 5:10)			5-21
Geology 3, Geography	2	Bassler	5-12
Library Science 31, Bibliography	3	Schmidt	4-29
Philosophy 28, Ethics	3	Richardson	C.H. 15
Spanish 1, First Year Course (see 5:10)			C.H. 22
Spanish 4, Second Year Course (see 5:10)			C.H. 35
7:50—8:40			
Psychology 50, Seminar	3	Moss	4-28

NOTE.—For laboratory hours, see announcements under "Courses of Instruction."

## COURSES OF INSTRUCTION

Courses preceded by a star (\*) begin on July 5, all other courses begin on June 13. Courses corresponding approximately to those offered during the regular session are given corresponding numbers. Courses not so corresponding are assigned Roman numerals. The letters a and b following some of the numbers signify correspondence respectively to first and to second semester work of the regular session.

Courses called for by less than ten students may be withdrawn.

## BOTANY

Courses 1 and 2 in General Botany are equivalent to the general introduction to the science given in the regular session. To enable part time students to secure the whole course after working hours it is planned to reverse the schedule in the summer of 1928. Text: Holman and Robbins, Textbook of General Botany.

\*1. *The Living Plant*.—A study of the structure and function of the flowering plant as a working mechanism. Recitation daily, 6:05-6:55 p. m.; laboratory daily, 6:55-7:45 p. m. Three semester-hour credits. Professor GRIGGS and Miss COOPER.

\*2. *The Plant Kingdom*.—A rapid survey of the principal groups of plants followed by practice in determining the common native plants. Recitation daily, 10:05-11:00 a. m.; laboratory daily, 11:05-12:00 a. m. Three semester-hour credits. Professor GRIGGS and Miss COOPER.

\*5. *Plant Study*.—An out-of-doors course designed to familiarize the student with the plants—higher and lower—growing around Washington. Field trips daily, 1:30-4:30 p. m. Four semester-hour credits. Professor GRIGGS and Miss COOPER.

\*25. *Plant Adaptation*.—A study of the structural modifications—especially ecological histology—by which plants meet the conditions of special environments. Prerequisite: Botany 1 and 2 or equivalent. Lectures, laboratory and field trips. Daily, 5:10-7:45 p. m. Three semester-hour credits. Professor GRIGGS.

\*26. *Advanced Field Work*.—Competent students may take up some special problem. Hours and credits to be arranged. Professor GRIGGS.

## CHEMISTRY

2. *General Chemistry*.—A course for students who do not plan to continue the study of Chemistry. Prerequisite: High School Chemistry. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 3:00-5:00 p. m. or 7:00-9:00 p. m. Six semester-hour credits. Professor McNEIL and Assistants.

3. *General Chemistry*.—A course for engineering and premedical students, and for those majoring in Chemistry. Prerequisite: none. Lectures daily, 5:10-6:55 p. m. Laboratory daily, 1:00-5:00 p. m. or



7:00-11:00 p. m. Ten semester-hour credits. Professor McNEIL and Assistants.

4. *General Chemistry*.—A course for engineering and premedical students, and those majoring in Chemistry. Prerequisite: High School Chemistry. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Eight semester-hour credits. Professor McNEIL and Assistants.

10. *Elementary Physical Chemistry and Qualitative Analysis*.—The lectures consist of an elementary presentation of Physical Chemistry, and the foundations of Analytical Chemistry. The laboratory work of the first half of the course is devoted to physico-chemical measurements, and that of the second half to Qualitative Analysis. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:55 p. m. Laboratory daily, 7:00-11:00 p. m. Ten semester-hour credits. Mr. VAN EVERA.

15. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:20 p. m. Laboratory, Monday, Wednesday and Friday, 1:40-5:00 p. m. or 7:00-10:20 p. m. Six semester-hour credits. Professor MACKALL, Mr. HANN and Assistants.

16. *Organic Chemistry*.—A course on the Chemistry of the Compounds of Carbon. Prerequisite: Chemistry 3 or 4. Lectures daily, 5:10-6:20 p. m. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Eight semester-hour credits. Professor MACKALL, Mr. HANN and Assistants.

41. *Inorganic Chemistry*.—Advanced synthetic inorganic preparations. Prerequisite: Chemistry 3 or 4, and 10. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Four semester-hour credits. Professor MACKALL and Assistants.

46. *Advanced Organic Chemistry*.—Advanced synthetic organic preparations. Prerequisite: Chemistry 3 or 4, and 16. Laboratory daily, 1:00-5:00 p. m. or 7:00-11:00 p. m. Four semester-hour credits. Professor MACKALL and Assistants.

93. *Research in Organic Chemistry*.—Daily, 1:00-5:00 p. m. Professor MACKALL.

### COMMERCE

\* 1. *History of Commerce*.—A study of the influence of the processes of commerce and industry upon the history of civilization, and of the development of commercial and industrial institutions from antiquity to the present time; includes consideration of World War changes and post-war problems. Prerequisite: Principles of Economics. At 9:05 a. m. Two semester-hour credits. Mr. YOUNG.

26. *Marketing*.—A fundamental course in the principles, methods, and problems of marketing. Wholesale and retail methods are fully

analyzed, and such specific problems as speculation, elimination of middlemen, and price control are examined. The position of the state in its relation to marketing is discussed; and an examination of the cooperative movement concludes the course. Prerequisite: Principles of Economics. At 7:45 a. m. Three semester-hour credits. Mr. YOUNG.

33a. *Commercial Law*.—Contracts. At 5:10 p. m. Two semester-hour credits. Professor ALDEN.

33b. *Commercial Law*.—Commercial Paper. At 6:05 p. m. Two semester-hour credits. Professor ALDEN.

43. *Foreign Trade*.—Principles and practices; underlying economic factors; market development; finance and documentation; regulation and promotion. Special attention is given to an analysis of the trade of the United States and to a survey of important markets. Prerequisite: Principles of Economics. At 6:05 p. m. Three semester-hour credits. Mr. YOUNG.

### ECONOMICS AND SOCIOLOGY

2. *Principles of Economics*.—A survey of the basic principles which underlie the production, consumption, and distribution of wealth in the economic society in which we live. Prices, business organization, finance, international trade, labor problems, relation of government to business, marketing, transportation, and taxation indicate the scope of this course. This is the prerequisite for advanced courses in economics and commerce. At 5:10 p. m. and meeting through 6:55 p. m. (two consecutive periods). Six semester-hour credits. Associate Professor SUTTON.

Note:—Students already having credit for three hours of economics should communicate with the instructor and arrange to enter for the second half of the course not later than July 18. The last half of this course is the equivalent of the second semester's work in Economics 1 and 2.

21. *Experimental Sociology*.—The course is devoted mainly to the study of social behavior, customs and social judgments upon such behavior. The student is expected to join the class in making careful observations of social conduct and in making a series of experiments adapted to the development of a better understanding and improved technics for the control of social conduct. At 5:10 p. m. and meeting through 6:55 p. m. Six semester-hour credits. Professor KERN.

33. *Investments*.—A course in the basic principles of investment. The analysis of the various factors of investment credit and their application to the different types of investments. The needs of various classes of private and institutional investors; proper selection of securities adapted to these needs. The necessary care of investments after



making them. At 7:45 a. m. Three semester-hour credits. Associate Professor SUTTON.

### EDUCATION

III. *Junior High School Geography*.—Same as Geology 3. At 6:55 p. m. Two semester-hour credits. Professor BASSLER.

\* 11. *Educational Psychology*.—A rapid survey of the facts and principles of Psychology, followed by a more detailed consideration of the psychology and pedagogy of learning. At 10:05 a. m. Two semester-hour credits. Professor BROWN.

\* 21a. *Educational Sociology*.—The school as a social institution. Principles of sociology that most concern various types of education as determined by the needs of society, economic life, and culture. Problems in curriculum revision. At 9:05 a. m. Two semester-hour credits. Professor BROWN.

\* 21b. *Principles of Teaching*.—Principles of teaching as indicated by biology, psychology, and sociology; formulations of such principles for the guidance of practice; application to instruction in the elementary school, the secondary school and the college. At 7:45 a. m. Two semester-hour credits. Professor WYNNE.

\* 22b. *History of Education*.—A study of the chief educational developments since the revival of learning. At 7:45 a. m. Two semester-hour credits. Professor BROWN.

\* 24. *History of American Education*.—A study of the development of American education from colonial times to the present. At 9:05 a. m. Two semester-hour credits. Professor WRIGHT.

\* 25a. *Secondary Education*.—The place of secondary education in the school system, types of secondary schools; courses of study; dynamic methods; administration. At 10:05 a. m. Two semester-hour credits. Professor WYNNE.

\* 25b. *The Junior High School*.—A study of the purposes of the junior high school and the reorganization needed to achieve them; history of the movement; the curriculum; methods of instruction. At 11:05 a. m. Two semester-hour credits. Professor WYNNE.

\* 26a. *Elementary Education*.—This course will center on the teaching of reading, language, spelling, writing and arithmetic and will emphasize both subject matter and method. The practical use of related tests and scales will be considered. At 9:05 a. m. Two semester-hour credits. Mr. ROBINSON.

\* 26b. *Elementary Education*.—This course will center on the teaching of geography, history, citizenship, elementary science, hygiene, health, and fine and industrial arts. The organization of curricula, vitalized methods, and standardized tests will be considered. At 7:45 a. m. Two semester-hour credits. Mr. ROBINSON.

- \* 31b. *Tests and Measurements*.—A study of educational tests with consideration of the technique of their construction and administration, the interpretation of their results, and the modification of methods and programs to meet the conditions revealed. At 11:05 a. m. Two semester-hour credits. Professor WRIGHT.
- \* 33. *Teaching of History*.—A course in practical problems designed for history teachers in secondary schools, with special reference to the Junior High School. Text, lectures and special readings. At 10:05 a. m. Two semester-hour credits. Associate Professor WILGUS.
- \* 54. *Administration and Supervision*.—This course will deal with some of the problems confronting the superintendent, the supervisor, and the principal, and those preparing for such work. A paper embodying constructive scholarship will be required of each member of the class. Open to graduate students, principals, and supervisors. Others may be admitted by permission of the instructor. At 10:05 a. m. Three semester-hour credits. Professor WRIGHT.

#### ENGLISH

\*2a. *English Rhetoric*.—The course covers the text of the regular course for the first semester, including practice in composition. Lectures and conferences. At 7:45 a. m. Three semester-hour credits. Professor WILBUR and Dr. ANDERSON.

6a. *Survey of English Literature*.—First half from Beowulf to close of the eighteenth century. At 5:10 p. m. Three semester-hour credits. Associate Professor BOLWELL.

6b. *Survey of English Literature*.—Second half from Romantic Movement to contemporary writers. At 6:05 p. m. Three semester-hour credits. Associate Professor BOLWELL.

23b. *The Modern Novel*.—From Scott and Austen to contemporary American and English novelists. At 6:55 p. m. Three semester-hour credits. Associate Professor BOLWELL.

XXIV. *American Literature*.—A study of the poetry and prose of Emerson, Poe, and Whitman. At 6:05 p. m. Three semester-hour credits. Mr. SMITH.

\* XXVIII. *Early English Literature*.—A study in modern English translation of the most important monuments of English literature prior to 1400. At 11:05 a. m. Two semester-hour credits. Dr. ANDERSON.

\* XXIX. *English Romances and Balladry*.—At 10:05 a. m. Two semester-hour credits. Dr. ANDERSON.

\*32. *Shakespeare*.—The Philosophies. At 9:05 a. m. Two semester-hour credits. Professor WILBUR.

38b. *Poetry of the Romantic Movement*.—The poetry of Wordsworth, Byron, Shelley, and Keats. At 5:10 p. m. Three semester-hour credits. Mr. SMITH.



XL. *The Short Story*.—An historical survey with the emphasis on recent tendencies in the short story. Written reports and conferences. At 5:10 p. m. Three semester-hour credits. Mr. BAKER.

XLI. *The Pilgrim's Progress*.—At 10:05 a. m. Two semester-hour credits. Professor WILBUR.

XLII. *English and American Poetry since 1890*.—At 4:10 p. m. Three semester-hour credits. Mr. BAKER.

### FRENCH

1. *First-Year Course*.—For beginners. Grammar, translation, drill on pronunciation. Fraser and Squair's French Grammar (old edition). Texts to be announced. Students who complete this course successfully will be admitted to second-year course, French 3 or 4, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Assistant Professor FOSTER.

2b. *Second Semester of First-Year Course*.—Open to students who have just completed successfully one year of high school French or the first semester of first-year college French. At 6:05 p. m. Three semester-hour credits. Professor HENNING or Assistant Professor FOSTER.

4. *Second-Year Course*.—Open to students who have completed successfully two years of high school French or one year of college French. Grammar, translation, and reading. Fraser and Squair's French Grammar (old edition). First text, Dumas fils, "La Question d'argent" (D. C. Heath and Co.). Students who complete this course successfully will be admitted to third-year course, French 5 or 6, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor HENNING.

Note:—Students electing French 1 or 4 may take no class at 6 o'clock. An assignment for study will be made at the 5:10 for the 6:55 period.

7. *Composition and Conversation*.—Open to students who have completed successfully two years of high school French or one year of college French. This course may not be substituted for any part of the curriculum requirements for two years of modern languages. Students receiving grade A or B in this course may enter French 8 in the fall. At 5:10 p. m. Three semester-hour credits. M. BÉNÉTEAU. Given only if elected by at least ten students at the beginning of the course.

12. *Third-Year Course*.—Open to students who have completed successfully four years of high school French or two years of college French. A course in modern fiction, intended for students who wish to have facility in reading French, and some idea of French literature. It does not prepare directly for courses of the second group, "For Undergraduates and Graduates," but students who complete this course may later take Course 5 or 6 and count both courses toward the

degree, and towards the undergraduate major in Romance Languages. At 4:10 p. m. Three semester-hour credits. Professor HENNING. Given only if elected by at least ten students.

### GEOLOGY AND MINERALOGY

1. *Mineralogy*.—Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. At 7:45 a. m. and one additional hour to be arranged. Four semester-hour credits. Mr. HENDERSON.

2. *General Geology*.—Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general culture course or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-book: Cleland's Geology. From 5:10 to 6:55 p. m. Four semester-hour credits. Professor BASSLER.

3. *General Geography*.—This course presents the principles of geography by a study of the phenomena of the earth as a whole, the interrelations of these phenomena and their influence upon human affairs. It consists of two parts: first, a study of the general geographic principles; and second, a brief survey of several regions and countries for the application of these principles. It is a general culture lecture course illustrated by charts and lantern slides. No course is prerequisite. At 6:55 p. m. Two semester-hour credits. Professor BASSLER.

IV. *Field Course on the Geography of the United States*.—This course will consist of lectures, conferences and observations on the regions traversed. The itinerary is so arranged as to allow observations in most of the geographic regions of the United States. The students will accompany a tour party and be required to attend the stated lectures and conferences and to pass examinations. Particular observations will be made in the region of the Upper Great Lakes, the Rocky Mountain Front, Utah, the Yellowstone, the west coast and the dry southwest. About June 23-July 25. Three semester-hour credits. Assistant Professor RESSER.

Note:—The University takes no responsibility for financial arrangements in connection with the tour.



## GERMAN

2. *First Year German*.—The essentials of German Grammar, translation of easy prose and poetry; beginning conversation; composition and dictation. This course is open to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. From 5:10 to 6:55 p. m. Six semester-hour credits. Mr. GROPP.

4. *Second Year German*.—This course is equivalent to the advanced German of admission requirements and it is open only to students who have passed Course 1 or 2, or who have satisfied the admission requirements in Elementary German. From 5:10 to 6:55 p. m. Six semester-hour credits. Professor SEHRT.

6. *Scientific German*.—Designed primarily for students in the scientific and engineering courses. This course may be taken by students who have passed Courses 1 and 2, or who have satisfied the entrance requirements in Elementary German. Both German 4 and 6 may be taken for credit. At 7:45 a. m. Three semester-hour credits. Mr. GROPP.

## HISTORY

Note:—For course in the Teaching of History see Education 33.

10a. *American History to 1829*.—A survey of the Colonial and early national periods with emphasis upon political history. At 5:10 p. m. Three semester-hour credits. Professor HICKS.

10b. *American History from 1829*.—Course 10a continued. May be taken separately from Course 10a. At 6:05 p. m. Three semester-hour credits. Professor HICKS.

11. *Medieval History*.—Europe from the decline of the Roman Empire through the age of geographic exploration. Texts, lectures, and quiz sections. At 5:10 p. m. Three semester-hour credits. Dr. RAGATZ.

25a. *English History*.—A general course in English history to the sixteenth century. Text, lectures, quiz sections, and parallel readings. At 6:05 p. m. Three semester-hour credits. Associate Professor WILGUS.

27. *Hispanic-American History*.—A general survey of the Spanish and Portuguese colonies in America, their transition to independent states, and their modern development. Texts, lectures and special readings. At 7:45 a. m. Three semester-hour credits. Associate Professor WILGUS.

\*38. *The French Revolution and the Napoleonic Era*.—A study of the important transitions—political, social, economic and intellectual—which occurred during the period of the French Revolution and the domination of Napoleon. At 11:05 a. m. Two semester-hour credits. Dr. RAGATZ.

45. *Modern Imperialism*.—A study of colonial expansion during the nineteenth and twentieth centuries, with special reference to the partition of Africa and Asia and overseas rivalries of the European powers. Texts and lectures. At 7:45 a. m. Three semester-hour credits. Dr. RAGATZ.

\*XLVII. *Recent American History*.—The United States from 1898 to the present time; the Spanish-American War, expansion and its diplomatic consequences, social and economic conditions, the World War and after. A term paper will be required of all students. At 9:05 a. m. Three semester-hour credits. Professor HICKS.

### LAW

A separate Bulletin is published for the work offered in the Law School.

### LIBRARY SCIENCE

1. *Cataloguing*.—This course is designed to cover the general principles of library science, with special emphasis on the elements of cataloguing. At 5:10 p. m. Three semester-hour credits. Professor SCHMIDT.

20. *Classification*.—The general principles and distinguishing characteristics of the Dewey, Cutter and Library of Congress systems are discussed and books classified according to each, with accompanying practice in shelf-listing and book-notation. Prerequisite: Course 1 or practical library work. At 6:05 p. m. Three semester-hour credits. Professor SCHMIDT.

30. *Reference and Administration*.—Prerequisite: Courses 1 and 20, or adequate library experience. Three semester-hour credits. Professor SCHMIDT. Not given in 1927.

31. *Bibliography, Book-Selection and Allied Topics*.—Prerequisite: Course 30, or adequate library experience. At 7:15 p. m. Three semester-hour credits. Professor SCHMIDT.

Note:—Courses 1 and 20 may be continued the second semester of the regular school year; and Course 31 alternates with Course 30, the two constituting the work of the third year.

### MATHEMATICS

4a. *College Algebra*.—Starting with a review of quadratics. At 5:10 p. m. Three semester-hour credits. Associate Professor CHENEY.

4b. *Geometry and Trigonometry*.—Solid geometry and all of plane trigonometry. At 6:05 p. m. Three semester-hour credits. Associate Professor CHENEY.

9a. *Plane and Spherical Trigonometry*.—This course is offered primarily for students who have had Plane Trigonometry. At 6:05 p. m. Three semester-hour credits. Associate Professor HODCKINS.



9b. *Analytic Geometry*.—This course is offered to students who have had Plane and Spherical Trigonometry. At 5:10 p. m. Three semester-hour credits. Associate Professor HODGKINS.

(Courses 9a and 9b may be taken concurrently.)

### NATURE STUDY

(See Botany and Zoology.)

### PHILOSOPHY

\*21. *Philosophy*.—This course is intended to give a general survey of the subject for beginners. At 9:05 a. m. Two semester-hour credits. Professor RICHARDSON.

26. *Logic*.—A study of the fundamental concepts of logic: induction and deduction; hypotheses; logical analyses. At 6:05 p. m. Three semester-hour credits. Professor RICHARDSON.

28. *Ethics*.—A study of the principal ethical theories from the historical and social points of view. At 6:55 p. m. Three semester-hour credits. Professor RICHARDSON.

### PHYSICS

3a. *Introductory General Physics*.—Mechanics, Heat, and Electrostatics. At 5:10 p. m. Three semester-hour credits. Professor BROWN.

3b. *Introductory General Physics*.—Magnetism and Electricity, Sound, and Light. At 6:05 p. m. Three semester-hour credits. Professor BROWN.

4a and 4b. *Laboratory Physics*.—The schedules of experiments are arranged to parallel the lecture courses, but different schedules may be arranged in special cases. 7:00-10:00 p. m. Two semester-hour credits for either course. Mr. FREDERICK.

### POLITICAL SCIENCE

1. *Government of the United States*.—A general introductory course in Political Science dealing primarily with the government of the United States, with some reference to foreign systems, chiefly by way of comparison, and surveying briefly some of the problems of political theory. At 7:45 a. m. Three semester-hour credits. Assistant Professor WEST.

3. *State Government*.—The structure and functions of the government of the states, the relation to the United States, business protection and regulation, labor, education, health, highways, finance, the police power, political parties, civil service, the initiative, referendum and recall and a brief survey of city government form the subject matter for this course. At 4:20 p. m. Three semester-hour credits. Professor HILL.

\* 24. *Constitutional Law*.—The purpose of this course is to give the student a knowledge of the meaning of the various clauses of the Constitution of the United States. At 10:05 a. m. Two semester-hour credits. Assistant Professor WEST.

\* 25. *Political Theory*.—The political ideas of Aristotle, Plato, Thomas Jefferson and others, the political theory of the American Revolution, the controversy over states' rights, and the development of the idea of democracy will be surveyed. At 11:05 a. m. Two semester-hour credits. Assistant Professor WEST.

29. *International Law*.—What it is. How it governs the relations of states. The protection afforded citizens and property abroad. Jurisdiction over public and private vessels. Intervention. Extradition of fugitives. Treaties and their enforcement. Diplomats and consuls, their duties and immunities. Means of redress falling short of war. At 6:05 p. m. Three semester-hour credits. Professor HILL.

31. *World Politics*.—What neo-mercantilism means. The established and conflicting claims of various nations in Africa, the Near East and Asia. The battle for concessions especially in the Far East. The policy of the United States toward Latin America. The Mandates. Efforts through the League of Nations to bring about a new order. At 5:10 p. m. Three semester-hour credits. Professor HILL.

### PSYCHOLOGY

\* 11a. *Psychology*.—Same as Education 11. At 10:05 a. m. Two semester-hour credits. Professor BROWN.

12a. *General Psychology*.—A course in the fundamental principles underlying human behavior. At 6:05 p. m. Three semester-hour credits. Associate Professor MOSS.

12b. *Applied Psychology*.—A study of the applications of Psychology in the fields of business, industry, law, medicine, and education. At 5:10 p. m. Three semester-hour credits. Associate Professor MOSS.

50. *Seminar*.—A study of recent developments in the applications of Psychology accompanied by research work. At 7:50 p. m. Three semester-hour credits. Associate Professor MOSS.

### SPANISH

1. *First-Year Course*.—For beginners. Elements of Spanish grammar; drill in pronunciation; oral and written composition; translation of modern Spanish prose. Hills and Ford's First Spanish Course (Heath). Students who complete this course successfully will be admitted to second-year course, Spanish 3 or 4, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor DOYLE or Assistant Professor DEIBERT.



2b. *Second Semester of First-Year Course.*—Open to students who have just completed successfully one year of high school Spanish or the first semester of college Spanish. Hills and Ford's First Spanish Course (Heath); Rivera and Doyle's *En España* (Silver, Burdett). At 6:05 p. m. Three semester-hour credits. Professor DOYLE or Assistant Professor PROTZMAN.

4. *Second-Year Course.*—Open to students who have completed successfully two years of high school Spanish or one year of college Spanish. Review of grammar; composition; translation of modern Spanish prose and poetry. Seymour and Carnahan's Spanish Review Grammar (Heath); Benavente, *Tres Comedias* (Heath). Students who complete this course successfully will be admitted to third-year course, Spanish 5 or 6, in the fall. Twice daily, at 5:10 and 6:55 p. m. Six semester-hour credits. Professor DOYLE.

Note:—Students electing Spanish 1 or 4 may take no class at 6 o'clock. An assignment for study will be made at 5:10 for the 6:55 period.

7. *Conversation and Composition.*—Open to students who have completed successfully one year of college Spanish or its equivalent. Oral and written composition; conversation. At 6:05. Three semester-hour credits. Mr. VÁZQUEZ. (Cannot be counted to meet the curriculum requirement in modern language. Students receiving grade A or B in this course may enter Spanish 8 in the fall. Given only if elected by at least ten students at the beginning of the course.)

12. *The Modern Spanish Drama.*—Open to students who have completed successfully four years of high school Spanish or two years of college Spanish. Intended for students who wish to have facility in reading Spanish, and some idea of Spanish literature. It does not prepare directly for courses in the second group, "For Undergraduates and Graduates," but students who take this course may later take Course 5 or 6 and count both courses for the degree. Spanish 12 may be counted towards fulfillment of the requirements for a major in Romance Languages. At 6:05 p. m. Three semester-hour credits. Professor DOYLE. (Given only if elected by at least ten students.)

### ZOOLOGY

3. *Zoology.*—Invertebrates and vertebrates. A lecture and laboratory course covering the pre-medical requirement. Lecture at 5:10; laboratory, 6-9. Eight semester-hour credits. Professor BARTSCH and Miss PARKER. Text: Volumes I and II, Parker and Haswell, "A Textbook of Zoology," and Davison, "Mammalian Anatomy."

\* 4. *Nature Study.*—An out-of-doors nature study course, concerned with observing, gathering, and studying the animal life, large and



small, found about Washington. Field trips, laboratory work, lectures, and reading. 8-10 a. m. Three semester-hour credits. Professor BARTSCH and Miss BUNDICK.

27. *An elementary course in Physiology*, intended to acquaint the student with the minute structure and function of the organs of the animal body. Text: "Elementary Physiology," by Burton-Opitz. At 6-8. Six semester-hour credits. Professor BARTSCH and Mr. McCLOSKEY.

28. *Advanced Work in Nature Study*.—By special arrangement. Four semester-hour credits. Professor BARTSCH.

50. Students who have the necessary basic training may arrange to undertake advanced work or individual research with Professor BARTSCH. Such courses will cover six semester-hour credits.



